



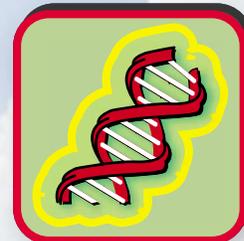
Physics



Advanced
Physics



Chemistry



Biology



Measurement



50+ New
Products



Plasticware



Glassware



Liquid
Handling



Lab
Equipment

Product Catalog

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ABOUT US:

United Scientific Supplies, Inc. is a family owned and operated business. Our products are manufactured in modern factories worldwide and distributed from our warehouse in Waukegan, Illinois.

OUR MISSION:

Our mission is to promptly deliver quality products at good prices. A large inventory allows us to consistently meet and exceed customer target delivery dates.

105 of our products include activity guides written by experienced educators and professionals in the United States.

Look for  throughout this catalog for such products.



We strive to offer the best quality of products on the market. Our merchandise is guaranteed against defects in materials or workmanship for up to one year after the ship date.

CUSTOMER SERVICE:

Customer service has always been a vital part of our company. You can expect personalized attention, prompt confirmation of your orders, and quick response to any questions you may have.

We custom manufacture a wide variety of products that are not included in this catalog, due to exclusive arrangements with our customers. We offer several advantages in custom manufacturing including economical tooling costs, short lead times, and extremely competitive pricing. Customizing a product with your name and/or logo is also available. Contact us to discuss your individual needs.



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See Complete Index of Products on Pages 110 and 111.

The products offered in this catalog are designed for and intended primarily for use by persons at least thirteen years old. Exceptions are specially noted on the pages where they are displayed. The products are not toys and are intended for educational laboratory use only. They should be used under qualified adult supervision.



FEATURED NEW PRODUCTS

CHEMISTRY LABWARE KIT



A convenient assortment of items most commonly used in a general Chemistry Lab. **See full description on page 54.**

Item No.	Description
HRDKIT3	Chemistry Labware Kit

HOFFMAN ELECTROLYSIS APPARATUS

The Hoffman Electrolysis Apparatus is used for the qualitative and quantitative study of the electrolytic decomposition of electrolytes such as water and hydrochloric acid. **See full description on page 53.**



Item No.	Description
HEA001	Hoffman Electrolysis Apparatus

ORGANIC CHEMISTRY SETS

Organic Chemistry Glassware sets are available in a standard set of 9 and a deluxe set of 16 pieces. The Standard Set is designed to cover essential requirements for organic chemistry and is suitable for preparations up to 30g. The Deluxe Set is suitable for preparations up to 150g. **See full description on page 54.**



Item No.	Description
ORGKIT-09	Standard Organic Chemistry Glassware Kit, 9 piece
ORGKIT-16	Deluxe Organic Chemistry Glassware Kit, 16 piece

FILTERING KIT



An excellent, faster working, alternative to traditional gravity based liquid filtration. **See full description on page 55.**

Item No.	Description
FLTKIT	Filtering Kit

MINI ELECTROLYSIS DEVICE

This easy to set up, inexpensive device was designed by teachers in order to collect the correct proportions of hydrogen and oxygen from the electrolysis of water. Its unique design helps correct issues such as falling test tubes perched over unsteady electrodes and gases escaping due to poor alignment. **See full description on page 53.**



Item No.	Description
ELWD01	Mini Electrolysis Device

DISTILLATION APPARATUS

Includes all of the materials necessary to construct an inexpensive, versatile distillation apparatus. **See full description on page 55.**



Item No.	Description
DSA001	Distillation Apparatus



ENERGY CONVERSION KIT



This economical seven-piece kit lets you demonstrate the conversion between different forms of energy. It includes four devices for generating electrical energy from mechanical motion (hand generator), chemical energy (batteries), light (solar cell) and wind (windmill) and three devices for using electrical energy to generate light (LED) motion (motor) and sound (buzzer). **See full description on page 24.**

Item No.	Description
ECK001	Energy Conversion Kit

FAN CART



This basic, inexpensive Fan Cart is battery-powered. Includes a transparent plate to demonstrate the reversal of air flow. **See full description on page 33.**

Item No.	Description
FNCRT1	Fan Cart

ALUMINUM SPRING SCALES



Constructed of anodized aluminum, with steel hooks. **See full description on page 48.**

Item No.	Description	Graduation	Color
SB0100-A	100g / 1N	2g / 0.02N	Black
SB0250-A	250g / 2.5N	5g / 0.05N	Blue
SB0500-A	500g / 5N	10g / 0.1N	Green
SB1000-A	1,000g / 10N	20g / 0.2N	Brown
SB2000-A	2,000g / 20N	40g / 0.5N	Red
SB3000-A	3,000g / 30N	50g / 0.5N	Silver
SB5000-A	5,000g / 50N	100g / 1N	Gold

WHITEBOARD OPTICS SET



A comprehensive and economical set of equipment for ray optics and color experiments using magnetic-backed components that can be used on the included whiteboard or any installed steel whiteboard. **See full description on page 17.**

Item No.	Description
WBOPS1	Whiteboard Optics Set

PLANCK'S CONSTANT APPARATUS



A precision device for measuring Planck's Constant and the work function of electrons in cesium. **See full description on page 45.**

Item No.	Description
PLCN01	Planck's Constant Apparatus

HAND HELD GENERATOR

Students get hands-on demonstration of the Second Law of Thermodynamics with this deluxe 6V DC Generator that can deliver up to 400mA current. The clear plastic housing allows students to watch the coils, terminals, and gears. **See full description on page 25.**



Item No.	Description
GENH02	Hand Held Generator



FEATURED NEW PRODUCTS

THE SPILLNOT™



An inexpensive demonstration to intrigue students and challenge their analytical powers! The design of the SpillNot™ uses the principles of Newtonian physics to keep the liquid in the container. The flexible handle and the location of the suspension point above the center of the tray ensure that the forces on the liquid are always directed towards the supporting tray, even when the tray is in motion. **See full description on page 33.**

Item No.	Description
SPNT01	The SpillNot

SOLAR POWERED CAR

This economical demonstration solar car can be powered by a solar cell or a rechargeable battery. All working parts are visible through the clear molded housing. **See full description on page 25.**



Item No.	Description
SLRCR1	Solar Powered Car

PRIMARY AND SECONDARY COILS

Superior version of the classic device for investigating electromagnetic induction. Primary and secondary coils are wound on robust molded formers fitted with shielded banana jacks. The plated iron core has a molded handle for accurate positioning in the coils. **See full description on page 24.**



Item No.	Description
PSC001	Primary & Secondary Coils

STIRLING ENGINE

Economical Stirling Engine runs by exploiting the heat flow generated by the small temperature difference between room temperature and a cup of hot water or ice. **See full description on page 36.**



Item No.	Description
LTDSE1	Low T-Difference Stirling Engine

DNA MODEL KIT

Our popular DNA Model is now available as a kit. Kit includes 1 pre-assembled DNA Model, 3 unassembled models, and 1 instructional CD. **See full description on page 62.**



Item No.	Description
DNAM01-K4	DNA Model Kit with 4 models and CD
DNAM02-CD	CD Only for DNA Model
DNAM03-U	DNA Model (one model, unassembled)

MITOSIS MANIPULATIVES KIT

Newly updated, this kit is a memorable hands-on demonstration of all four stages of mitosis. **See full description on page 66.**



Item No.	Description
MITKIT2	Mitosis Manipulatives Kit



GENERAL LAB GLASSWARE STARTER KIT



A convenient glassware assortment designed for general laboratory use. **See full description on page 86.**

Item No.	Description
GLSKIT3	General Lab Glassware Starter Kit
GLSKIT4	Volumetric Glassware Starter Kit

PORCELAINWARE STARTER KIT



A customized kit that includes our top-selling porcelain products. **See full description on page 95.**

Item No.	Description
PORTKIT1	Porcelainware Starter Kit

CRYOGENIC VIALS, STERILE

Each of these polypropylene vials is able to withstand ultra-low temperatures. **See full description on page 75.**



Item No.	Description	Quantity per pack
CRVIAL1	Cryogenic Vial, 1.8ml capacity, 11.5mm O.D. x 46mm height	1000
CRVIAL2	Cryogenic Vial, 4.5ml capacity, 11.5mm O.D. x 87mm height	500

TRI-CORNER BEAKERS

These sturdy polypropylene beakers feature three pouring lips for drip-less dispensing. Beakers are graduated in both ounces and milliliters. **See full description on page 68.**



Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
BTC0050	50ml	10	57 x 67	100
BTC0100	100ml	10	71 x 84	100
BTC0250	250ml	20	88 x 101	100
BTC0400	400ml	40	111 x 115	100
BTC0800	800ml	50	137 x 134	100
BTC1000	1000ml	50	143 x 141	100
BTCST30	Tri-Corner Beaker Set (five each of the above six sizes)			30

STACKABLE BEAKERS



Polypropylene beakers are highly flexible and nest together for easy storage. **See full description on page 68.**

Item No.	Capacity	Graduation Interval	O.D. x Height (mm)	Quantity per pack
BST120	120ml/4 oz.	10ml/0.5 oz.	70 x 64	25
BST120-CASE	120ml/4 oz.	10ml/0.5 oz.	70 x 64	1000
BST500	500ml/ 17 oz.	50ml / 1 oz.	108 x 95	25
BST500-CASE	500ml/ 17 oz.	50ml / 1 oz.	108 x 95	500

HDPE BOTTLES, BULK PACK

Leak-proof narrow mouth bottles constructed of High-Density Polyethylene (HDPE), with Polypropylene (PP) closure. **See full description on page 71.**



Item No.	Description	Quantity per case
33402-BULK	Reagent Bottles, Narrow, HDPE, 125ml	500
33403-BULK	Reagent Bottles, Narrow, HDPE, 250ml	250
33404-BULK	Reagent Bottles, Narrow, HDPE, 500ml	125



FEATURED NEW PRODUCTS

ANALOG HOT PLATE/MAGNETIC STIRRER

This Analog Hot Plate / Magnetic Stirrer features a stainless steel heating plate. Designed with double PT sensors, it also features a hot top indicator for safety along with an adjustable safety cut off. **See full description on page 104.**



Item No.	Description
HPLATE-A	Analog Hot Plate / Magnetic Stirrer

BOTTLE TOP DISPENSERS

The accuracy of these dispensers is exceptional and offers the best value in the industry. All wetted parts made from PTFE and borosilicate glass for maximum chemical resistance. Sets include a borosilicate glass media bottle. **See full description on page 89.**



Item No.	Volume range	Increment	Accuracy (± %)
BTDR-1	0.25-2.5 ml	0.05 ml	0.6
BTDR-2	0.5-5 ml	0.1 ml	0.5
BTDR-3	1-10 ml	0.2 ml	0.5
BTDR-4	2.5-30 ml	0.5 ml	0.5
BTDR-5	5-60 ml	1.0 ml	0.5

Item No.	Volume range	Included Bottle Size
BTDR1-SET	0.25-2.5 ml	100 ml
BTDR2-SET	0.5-5 ml	100 ml
BTDR3-SET	1-10 ml	250 ml
BTDR4-SET	2.5-30 ml	500 ml
BTDR5-SET	5-60 ml	1000 ml
BTDR6-SET	5-60 ml	2000 ml

3-PRONG EXTENSION CLAMPS

Our deluxe line of 3-prong extension clamps are constructed of pressure die casted zinc alloy and are chrome plated. **For a complete listing of our new line of deluxe clamps, see page 92.**



Item No.	Description
ECPVC1	3-prong Extension Clamp with Rod, PVC coated grips
ECSIL1	3-prong Extension Clamp with Rod, silicone coated grips
ECPVC2	3-prong Extension Clamp with Boss Head, PVC coated grips
ECSIL2	3-prong Extension Clamp with Boss Head, silicone coated grips

CLASS A GLASSWARE



We offer Class A glassware that is manufactured in India, and has been evaluated and approved for use by major pharmaceutical companies worldwide. Class A products available are Burets, Graduated Cylinders, Volumetric Flasks, Transfer Pipettes and Measuring Pipettes. **See full descriptions on pages 79, 81, 82 and 85.**

Description
United Class A Glassware

TIE-DYED LABORATORY COATS

Knee-length, white cotton blend coats are manufactured with a vibrant tie dye pattern. **See full description on page 108.**



Item No.	Description
LBCTKD	Tie-dye Lab Coat, Kids
LBCTSM	Tie-dye Lab Coat, Small
LBCTMD	Tie-dye Lab Coat, Medium
LBCTLG	Tie-dye Lab Coat, Large
LBCTXL	Tie-dye Lab Coat, Extra Large
LBCT2XL	Tie-dye Lab Coat, Double Extra Large

RIA VIALS, WITH CAP

Available in both polypropylene and polystyrene. **See full description on page 74.**



Item No.	Description	Quantity per pack
RVIAL-PP	RIA Vial with Cap, Clear, Autoclavable	500
RVIAL-PS	RIA Vial with Cap, Clear, Non-Autoclavable	500



INDIVIDUAL GLASS LENSES



Made from plate glass, with carefully ground and polished optical surfaces, and cleanly ground edges.

Diameter	Focal Lengths (mm)	Double Convex Item No.	Double Concave Item No.
38	50	LCV302	LCC302
38	100	LCV304	LCC304
38	150	LCV306	LCC306
38	200	LCV308	LCC308
38	250	LCV310	LCC310
38	300-500*	LCV306**	LCC306**
50	50	LCV502	LCC502
50	100	LCV504	LCC504
50	150	LCV506	LCC506
50	200	LCV508	LCC508
50	250	LCV510	LCC510
50	300-500*	LCV506**	LCC506**
75	50	LCV702	LCC702
75	100	LCV704	LCC704
75	150	LCV706	LCC706
75	200	LCV708	LCC708
75	250	LCV710	LCC710
75	300-500*	LCV706**	LCC706**
100	100	LCV104	LCC104
100	150	LCV106	LCC106
100	200	LCV108	LCC108
100	250	LCV110	LCC110
100	300-500*	LCV106	LCC106
125	100	LCV204	LCC204
125	150	LCV206	LCC206
125	200	LCV208	LCC208
125	250	LCV210	LCC210
125	300-500*	LCV206**	LCC206**

* Focal Lengths available are 300, 350, 400, 450, and 500 mm.

** Please specify focal length when ordering.

We also carry plano-convex and plano-concave lenses. See dealer price list for complete listing. Lenses can also be manufactured to your specifications.

NEUTRALIZING LENS SET



Set of 2 lenses, 1 concave and 1 convex, 38mm diameter, 150mm focal length.

Item No.	Description
NELS38	Neutralizing Lens Set, 38mm diameter

INDIVIDUAL GLASS MIRRORS



Optically true glass, with scratch-resistant copper back silvering.

Diameter	Focal Lengths (mm)	Convex Item No.	Concave Item No.
38	25	MCV301	MCC301
38	50	MCV302	MCC302
38	100	MCV304	MCC304
38	150-500*	MCV306**	MCC306**
50	50	MCV502	MCC502
50	100	MCV504	MCC504
50	150-500*	MCV506**	MCC506**
75	50	MCV702	MCC702
75	75	MCV703	MCC703
75	100	MCV704	MCC704
75	150-500*	MCV706**	MCC706**
100	100	MCV104	MCC104
100	150-500*	MCV106**	MCC106**

*Most popular focal length is 150mm. Focal lengths available are 150, 200, 250, 300, 350, 400, 450, and 500 mm.

**Please specify focal length when ordering.

PLANE SPHERICAL MIRRORS



Optically true glass, with scratch-resistant copper back silvering.

Item No.	Description
MPL038	Plain Spherical Mirror, 38 mm diameter, pk/12
MPL050	Plain Spherical Mirror, 50 mm diameter, pk/12
MPL075	Plain Spherical Mirror, 75 mm diameter, pk/12
MPL100	Plain Spherical Mirror, 100 mm diameter, pk/12



ECONOMY OPTICS KIT



Includes
Activity
Guide

An entire optics set at a great price! Includes everything you need to demonstrate basic principles of light, and color. Comes in a reusable storage box. Shipping weight 1.75 lbs., dimensions: 14"x 9.5"x 3".

Contents:

- 1- Double convex lens, 38mm diameter, glass
- 2- Prisms, equilateral, 25mm x 50mm, acrylic
- 1- Double concave lens, 38mm diameter, glass
- 1- Plain lens, 38mm diameter, glass
- 2- Mirrors, square, acrylic
- 2- Plastic mirror supports
- 1- Wooden lens holder
- 1- Beaker, graduated, plastic
- 1- Flashlight (2 batteries included)
- 1- Plastic screen, white
- 1- Clear glass screen
- 1- Candle
- 5- Cellophane squares in 5 colors
- 1- Activity Guide, containing 20 experiments

Item No.	Description
OPTKIT	Economy Optics Kit

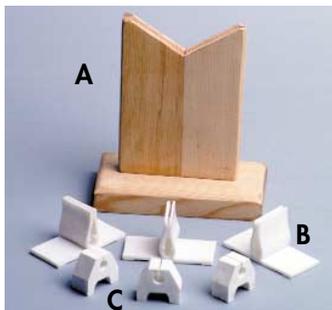
MIRROR SUPPORTS

WOOD MIRROR SUPPORT

Designed to support spherical mirrors and lenses. This polished wooden support is 5" tall and has a 1.5" V shaped grooved wedge to hold mirrors or lenses 38mm through 100mm, securely in place.

PLASTIC MIRROR SUPPORTS

Plastic supports to securely hold a mirror in a vertical position on any flat surface.



Item No.	Picture	Description
MSW001	A	Wood Mirror Support
MSP001	B	Plastic Mirror Support, pack of 6
MSP002	C	Plastic Mirror Support, pack of 36

GLASS MIRROR SET



A set of six glass spherical mirrors with back surface silvering. Includes three convex and three concave mirrors, all of 50 mm diameter. Focal lengths are 50 mm, 100 mm, 200 mm, -50 mm, -100 mm and -200 mm.

Shipping weight: 0.4 lbs, dimensions: 3" x 3" x 3"

Item No.	Description
MCVSET	Glass Mirrors, Set of 6

PLANE MIRROR STRIPS



GLASS MIRROR STRIPS

Made from plate glass about 2mm* thick, highly silvered back.

ACRYLIC MIRROR STRIPS

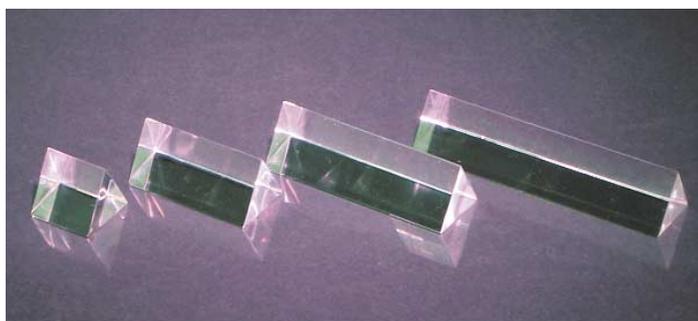
3 mm* thick.

***All sizes of mirror strips are also available in 1/4" thick glass. Call for prices.**

Item No.	Description	Pack Qty.
GLASS MIRROR STRIPS		
MSG2X2	2" x 2"	12
MSG3X1	3" x 1"	12
MSG3X2	3" x 2"	12
MSG4X2	4" x 2"	12
MSG4X4	4" x 4"	12
MSG6X2	6" x 2"	12
MSG6X4	6" x 4"	12
MSW6X4	6" x 4" x 1/4"	6
ACRYLIC MIRROR STRIPS		
MSA4X2	4" x 2"	1
MSA4X4	4" x 4"	1
MSA6X4	6" x 4"	1



EQUILATERAL PRISMS



Equilateral prisms, made from high quality clear acrylic sheet, or glass sheet. Highly polished surfaces.

Length	Face Size	Acrylic Item No.	Glass Item No.
25mm	25mm	PAE025	PGE025
50mm	25mm	PAE050	PGE050
75mm	25mm	PAE075	PGE075
100mm	25mm	PAE100	PGE100
125mm	25mm	PAE125	PGE125
150mm	25mm	PAE150	PGE150

RIGHT ANGLE REFRACTION PRISMS

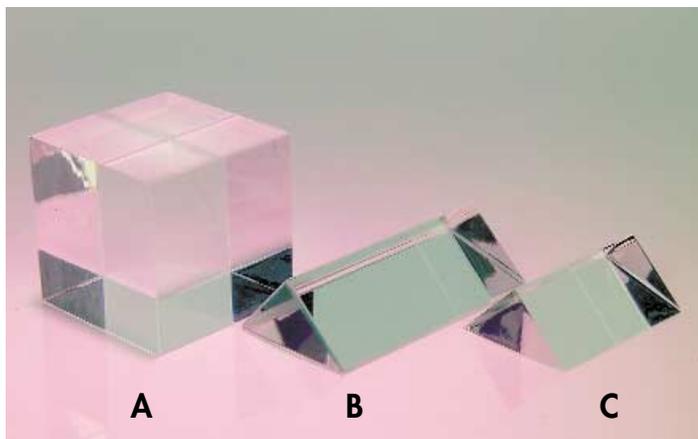


Polished Flint Glass prisms.

Properties of Flint Glass:
Refractive index: 1.5 to 1.6

Item No.	Description
PFG050	32mm x 45mm, Glass
PFG080	80mm x 115mm, Glass
PFA080	80mm x 115mm, Acrylic

RIGHT ANGLE PRISMS



Polished Acrylic or Flint Glass prisms.

Additional sizes of right angle prisms are available.
Call for details.

Item No.	Description (L x Right Angle Side x Hypotenuse)	Picture
PAR048	50mm x 47mm x 67mm, Acrylic	Not Shown
PAR050	50mm x 25mm x 35mm, Acrylic	C
PAR075	75mm x 25mm x 35mm, Acrylic	B
PGR075	75mm x 28mm x 38mm, Glass	Not Shown
PAR100	100mm x 25mm x 35mm, Acrylic	Not Shown
PGRE10	115mm x 12mm x 18mm, Glass	Not Shown
CUBA02	Cube, 2" sides, Acrylic	A

TRAPEZOID PRISM



Clear Acrylic trapezoid, with one flat surface frosted to enhance visibility. Bases are 89mm, and 40 mm. Faces measure 47mm and 35mm.

Item No.	Description
PATRAP	Trapezoid Prism

EQUILATERAL REFRACTION PRISM

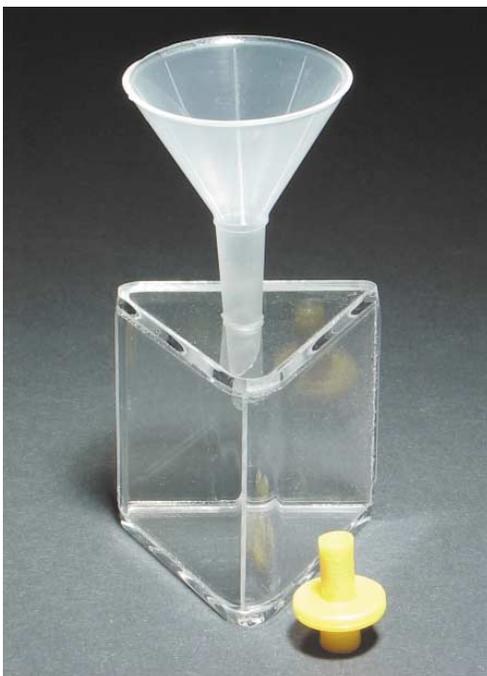


Acrylic, or Flint Glass prism, measuring 75mm long by 9mm thick.

Item No.	Description
FAP075	Equilateral Refraction Prism, Acrylic
FGP075	Equilateral Refraction Prism, Glass



HOLLOW ACRYLIC PRISM



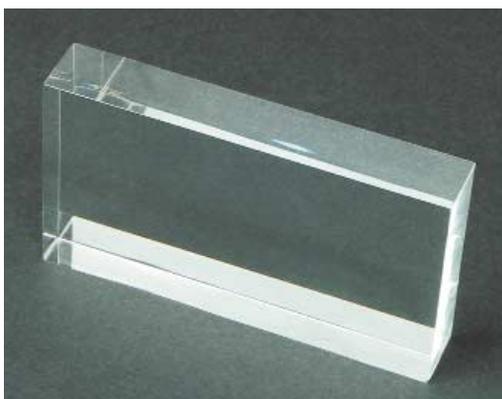
Equilateral, 45 mm sides. Has one hole for adding fluids to study refraction and dispersion. Comes with funnel and stopper.

Item No.	Description
PHA045	Hollow Acrylic Prism

Properties of acrylic:

Transmission of white light: 92%
 Refractive index: 1.48 to 1.5
 Haze: 1% - 3%

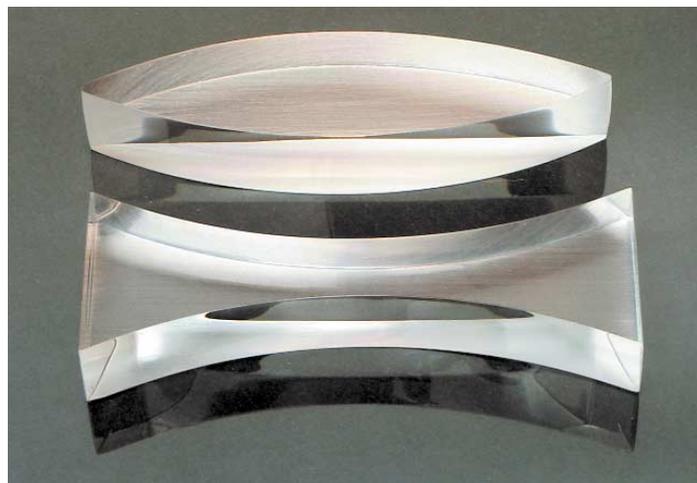
RECTANGULAR BLOCK



Index of refraction plate, acrylic.

Item No.	Description
RCB075	75 x 50 x 15mm
RCB100	100 x 75 x 20mm
RCB115	115 x 65 x 20mm
RCB115-G	115 x 65 x 20mm, Glass
RCB125	125 x 65 x 20mm

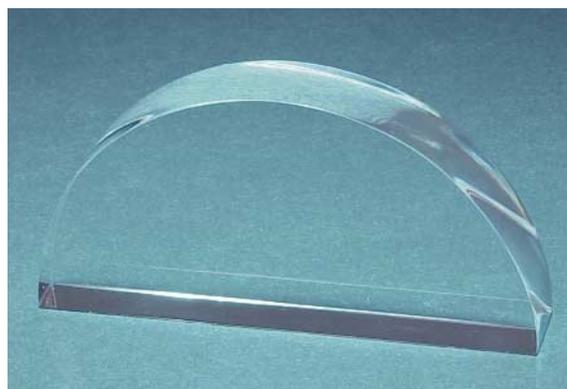
ACRYLIC LENSES



Made from Clear Acrylic. One plane surface is frosted.

Item No.	Description
PACV86	Double Convex, 89mm long, 15mm thick, 25mm across the beam axis
PACC86	Double Concave, 86mm long, 15mm thick, 18mm wide at center

SEMI-CIRCULAR LENS



Acrylic semi-circular lens, 75mm base, 15mm thick.

Item No.	Description
SCL075	Semi-Circular Lens

GLASS BLOCK



Rectangular glass block with two frosted sides, 114 mm x 63 mm x 19 mm.

Item No.	Description
RGF114	Glass Block- 2 sides frosted



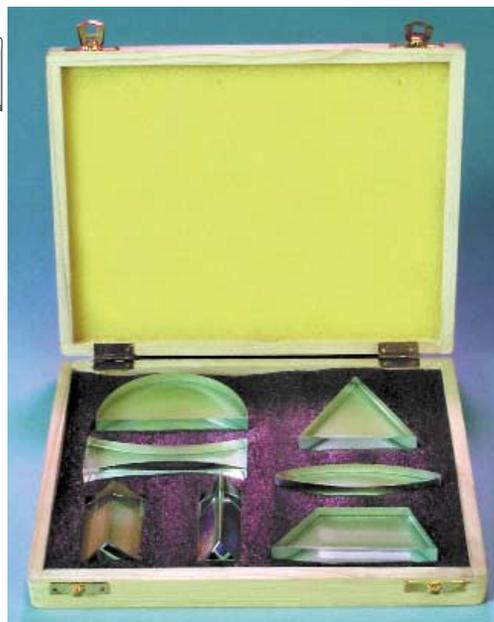
OPTICS SET



Includes two acrylic lenses, one each of double convex and double concave, and three mirrors, one each of convex, concave and plane. Packed in a cushioned wood storage box. Shipping weight: 0.25 lb., dimensions: 5"x 3.5"x 1.5".

Item No.	Description
OPSET1	Optics Set

PRISM AND LENS SET



These superior quality, yet economical prisms and lenses can be used to teach a wide variety of optical principles. This set is housed in a wooden case. Shipping weight: 2 lbs. for glass set, dimensions: 9.25"x 8"x 2".

Contents:	Trapezoidal prism
Double convex lens	Small right angle prism
Double concave lens	Equilateral prism
Semi-circular lens	Large right angle refraction prism

Item No.	Description
OPSETG2	Prisms and Lens Set of 7 – Glass
OPSETP3	Prisms and Lens Set of 7 – Acrylic

DEMONSTRATION LENS SET - GLASS



The set contains 6 lenses, one each of double convex, plano-convex, concavo-convex, double concave, plano-concave, and convexo-concave lenses. Comes in a reusable cardboard storage box.

Available in 38mm, 50mm or 75mm diameters. Lenses in all sets have focal lengths of 150mm.

Item No.	Description
DEMO38	38 mm Demonstration Lens Set, Glass
DEMO50	50 mm Demonstration Lens Set, Glass
DEMO75	75 mm Demonstration Lens Set, Glass

DEMONSTRATION LENS SET - ACRYLIC

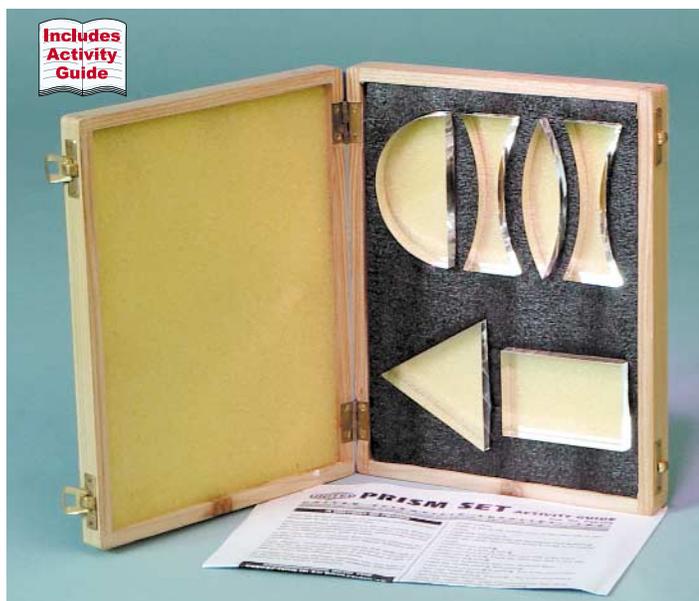


The set contains 6 lenses, one each of double convex, plano-convex, concavo-convex, double concave, plano-concave, and convexo-concave lenses. Includes an activity guide and a reusable cardboard storage box.

Item No.	Description
LSTA38	38 mm Demonstration Lens Set, Acrylic
LSTA50	50 mm Demonstration Lens Set, Acrylic
LSTA75	75 mm Demonstration Lens Set, Acrylic



SET OF PRISMS



Boxed set of high quality acrylic prisms, made from clear acrylic sheet, all sides polished. The set consists of six prisms in a variety of shapes, and an activity guide. Shipping weight: 1.25 lbs., dimensions: 10"x 8"x 2".

Contents:

- 1 Rectangular block 75mm x 50mm x 15mm
- 1 Semi-circle 90mm base x 15mm thick
- 1 Equilateral prism 75mm sides, 15mm thick
- 1 Double convex lens 90mm long, 23mm at center
- 2 Double concave lenses 90mm long, 10mm at center

Item No.	Description
PSET06	Set of 6 Prisms

LARGE DEMONSTRATION PRISM SET

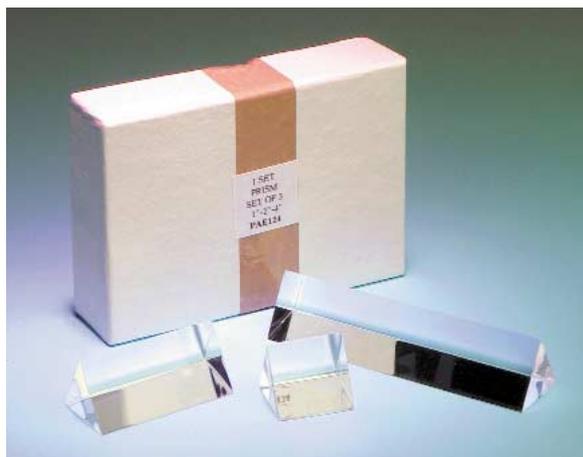


An oversized set of 6 lenses and prisms designed for mounting on a magnetic chalk or marker board. Lenses are about 8" long, so your optics experiments would be clearly visible from every part of the classroom. Each piece in the set has a pre-attached magnetic backing. Set contains 1 each of semi-circular lens, equilateral prism (3" sides), double convex lens, double concave lens, single convex lens, and single concave lens. An activity guide is also included. Set comes in a sturdy wooden storage case. Please note: Laser Ray Box not included.

Shipping weight: 7 lbs., dimensions: 14" x 12" x 2"

Item No.	Description
PST620	Large Demonstration Prism Set

EQUILATERAL ACRYLIC PRISM SET



Constructed of clear acrylic with highly polished surfaces, these prisms are ideal for projecting a clear, sharp spectrum. Set of Equilateral prisms includes 25mm, 50mm, and 100mm long prisms.

Item No.	Description
PAE124	Prism set, equilateral, set/3

RIGHT-ANGLED ACRYLIC PRISM SET



Constructed of clear acrylic with highly polished surfaces, these prisms are ideal for projecting a clear, sharp spectrum. Set of Right-Angled prisms consists of 25mm, 50mm, and 75mm long prisms.

Item No.	Description
PAR123	Prism set, right-angled, set/3



HAND LENS - METAL FRAME

Glass lenses mounted on metal frames with bakelite handles. 2X magnification.



Item No.	Description
MFG050	50 mm Diameter
MFG065	65 mm Diameter
MFG075	75 mm Diameter
MFG100	100 mm Diameter

HAND LENS - PLASTIC FRAME



Glass lenses molded into high quality unibody plastic frames. 2X magnification.

Item No.	Description
MFP050	50 mm Diameter
MFP065	65 mm Diameter
MFP075	75 mm Diameter
MFP090	90 mm Diameter
MFP100	100 mm Diameter

ALL-PLASTIC MAGNIFIER



This inexpensive 3x magnifier is great for general purpose use. Plastic lens, 2" diameter. Overall length, 6". Shipping weight: 1.25 oz., dimensions: 7" x 3" x 0.5".

Item No.	Description
XT81304	All-Plastic Magnifier

CLEAR PLASTIC MAGNIFIER, 3x, 6x

Clear plastic magnifier is 110mm (4.50") in length and features dual lenses of 3x and 6x magnification. 3x lens is 50mm in diameter and 6x lens is 20mm in diameter.



Item No.	Description
PMD002	Clear Plastic Magnifier, 3x, 6x

GIANT FOLDING MAGNIFIER

This magnifier offers an extra large field of view, hands-free use, and folds down to a compact size for storage. Its 10cm lens provides 6x magnification. Ideal for use on a lab table, and for dissecting small specimens like owl pellets. Shipping weight: 1 lb., dimensions: 7" x 5.75" x 2".



Item No.	Description
MGFL6X	Giant Folding Magnifier

BUG VIEWER



Rugged, clear plastic viewer with 5mm squares on the bottom for easier specimen measurement. The top has a 2.5x glass lens. **Suitable for ages 8+.**

Item No.	Description
MBV001	Bug Viewer

TRIPLE MAGNIFIER - PLASTIC

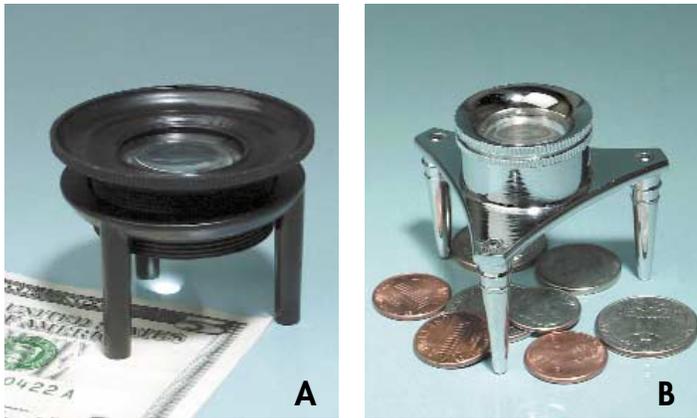


Handy molded plastic magnifier has 2x, 6x, and 8x magnification lenses. Overall length is 100mm (4").

Item No.	Description
PMT003	Triple Magnifier, Plastic



TRIPOD MAGNIFIER



Tripod magnifier, 10x magnification. Plastic or brass.

Item No.	Picture	Description
TRP10X	A	Plastic Tripod Magnifier
TRPBRI	B	Brass Tripod Magnifier

FOLDING MAGNIFIER - ALUMINUM CASE

Single folding magnifier in aluminum case. One lens, 25 mm diameter, 10x magnification.



Item No.	Description
MPF010	Folding Magnifier in Aluminum Case, 10 X

POCKET LOUPE

Compact pocket loupe, in a sturdy folding metal case. 10x magnification.



Item No.	Description
MFC010	Magnifier, pocket loupe, 10 X

FOLDING MAGNIFIER IN POUCH

Folding magnifier in a pouch. 50mm dia., 2.5x magnification.



Item No.	Description
MPF050	Folding Magnifier in Pouch, 2.5 X

FOLDING MAGNIFIERS



Folding magnifiers in plastic cases. 25mm lens, 5x magnification. Double magnifier has two lenses for 10x magnification, triple magnifier has three lenses for 15x magnification.



Item No.	Description
MPS010	Single Folding Magnifier, 5X
MPD010	Double Folding Magnifier, 10 X
MPT010	Triple Folding Magnifier, 15 X

LARGE POCKET MAGNIFIERS

These pocket magnifiers feature 38mm diameter lenses, and offer a much larger (almost twice!) field of view compared with regular pocket magnifiers (MPS010, etc). Sturdy plastic frames, glass lenses. These magnifiers are very versatile, and magnify objects up to 15x.



Item No.	Description
MPS038	Single, 5 X
MPD038	Double, 10 X
MPT038	Triple, 15 X

LOUPE-STYLE MAGNIFIERS

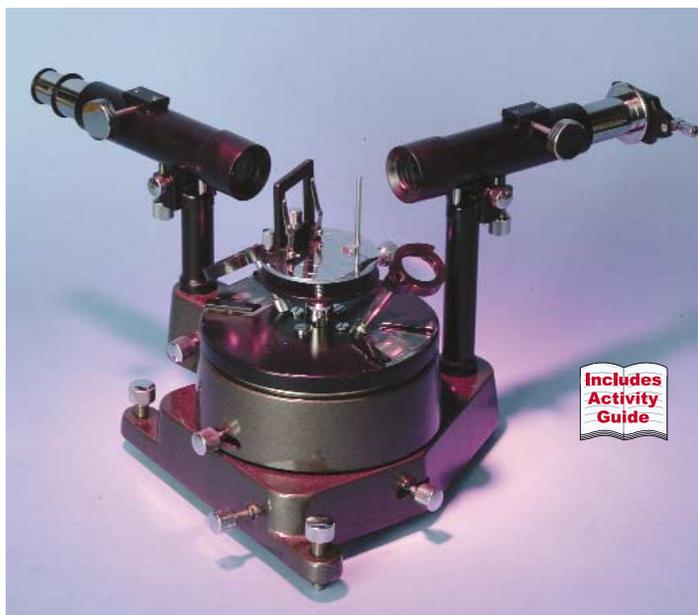
The high quality 27-mm lens is mounted in a sturdy black plastic loupe. Available in either 6X or 10X.



Item No.	Description
MFL006	6X loupe magnifier
MFL010	10X loupe magnifier



SPECTROMETER



Assists in the measurement of spectroscopic angles, refraction, and diffraction. It is geared to meet the requirements of student lab experiments. The unit is mounted on stable base with an attached collimator. The platform is able to rotate 360 degrees.

Specifications include:

- A 2.6cm diameter achromatic optical system with a 10x eyepiece and crosshair.
- A 16cm diameter 360 degree x 0.5 degree enclosed graduated circle with a double-ended external 0-30' x 1' Vernier, and 2 built-in scale reading magnifiers.
- An 8cm diameter grating/prism table with an engraved ring pattern. Table has adjustable prism and grating holders.
- A 6mm slit, opening to 2mm.
- Angular measurement accuracy of up to 1 degree.

Wooden storage box, teacher activity guide, and diffraction grating and prism are included. Shipping weight: approximately 26 lbs., dimensions of wooden box: 19" x 13" x 13".

Item No.	Description
SPECT01	Spectrometer
SPECPRS	Spectrometer Prism
DFG600	Diffraction Gratings

BASIC SPECTROSCOPE



An excellent hand held spectroscope for viewing the spectra of many different light sources. Durable construction with compound prisms and converging lenses made of high quality optical glass.

Item No.	Description
SPSCP1	Basic Spectroscope

INTERMEDIATE SPECTROMETER



This excellent instrument is easy to set up and easy to use and is designed for students to make precise measurements. This unit features high quality 22mm optics, a built-in illuminated auto-collimator for fast set up, a 17.8cm diameter divided circle with clear gradations, a double-ended vernier with illuminated magnifier reading to 1' resolution, and a 7cm diameter prism table which rotates 360° and adjusts 2cm in height for any size of accessories. It comes complete with grating and holder, prism, illuminated magnifier, auto-collimation mirror, power supply (for 110VAC), and an activity guide.

Shipping weight: 29 lbs., dimensions: 17" x 17" x 12".

Item No.	Description
SPECT02	Intermediate Spectrometer
SPECT02-P	Spectrometer Prism
DFG300	Diffraction Grating

STUDENT TRANSMISSION GRATINGS

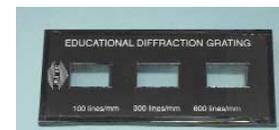


Quality Gratings protected by two glass plates, 60 mm X 45 mm. Viewing area measures approximately 45 mm X 30 mm.

Item No.	Description
DFG100	Student Gratings, 100 lines per mm
DFG300	Student Gratings, 300 lines per mm
DFG600	Student Gratings, 600 lines per mm
DFG525-pk/5	Diffraction Gratings in Slide Viewers (13,400 lines per inch), pk/5

DEMO DIFFRACTION GRATING

Demonstration slide has three 20 mm X 10 mm Gratings with 100, 300, and 600 lines per mm, mounted between glass plates.



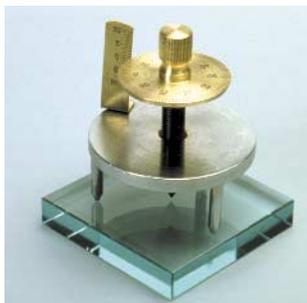
Item No.	Description
DFG003	Demonstration Diffraction Grating



PHYSICS - OPTICS

SPHEROMETER

A fine instrument for determining the radius of curvature of spherical surfaces such as mirrors and lenses. Its micrometer screw is graduated to measure displacement as small as 0.01 mm. The instrument has two brass plates and three steel legs. A flat glass plate is provided for support while taking precision readings.



Item No.	Description
SPRM01	Spherometer

NEWTON'S RINGS APPARATUS

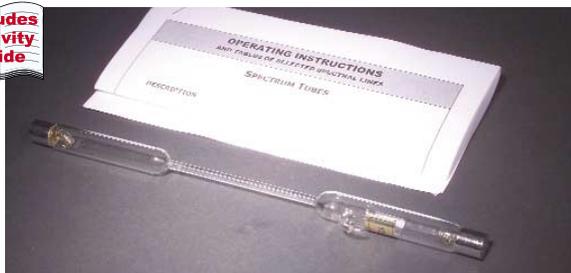


A pair of lenses, mounted on a metallic frame with three adjusting screws. Weight: 0.5 lbs., dimensions: 4" x 4" x 1.5".



Item No.	Description
NEWWRN	Newton's Ring Apparatus

SPECTRUM TUBES



The classic demonstration of spectral lines. Each tube has its characteristic spectrum when energized before a spectroscope. These tubes acquaint students with the spectra of common gasses in their pure form as well as for demonstrating wavelength.

The glass tubes are 25cm long with the capillary portion about 10cm long. An electrode is sealed in each end and attached to a metal end cap with a loop for convenient hookup to wire connections. Each spectrum tube includes an activity guide.

Item No.	Description
SPTAI01	Air Spectrum Tube
SPTAR01	Argon Spectrum Tube
SPTBR01	Bromine Spectrum Tube
SPTCD01	Carbon Dioxide Spectrum Tube
SPTCL01	Chlorine Spectrum Tube
SPTDT01	Deuterium Spectrum Tube
SPTHE01	Helium Spectrum Tube
SPHYO1	Hydrogen Spectrum Tube
SPTKR01	Krypton Spectrum Tube
SPTNE01	Neon Spectrum Tube
SPTNI01	Nitrogen Spectrum Tube
SPTOX01	Oxygen Spectrum Tube
SPTXE01	Xenon Spectrum Tube
SPTVW01	Water Vapor Spectrum Tube

WHITEBOARD OPTICS SET NEW



Whiteboard Optics Set shown measuring the refractive index of water.

A comprehensive and economical set of equipment for ray optics and color experiments using magnetic-backed components that can be used on the included whiteboard or any installed steel whiteboard. The whiteboard has a usable surface of 23" x 15.5" and has swiveling feet on two sides so that it can be set up in wide or tall format. The double-ended light box contains a 12V/20W halogen lamp, powered by a wall-mount AC adapter and cooled by a built-in fan. One end carries a cylindrical lens and slots for mounting the three slit diaphragms for ray optics. The other end carries two adjustable mirrors and an open area for color mixing work using colored filters that fit into slots in the ray box.

Additional information available upon request.

Dimensions: Optical parts set - 12" x 11" x 3.75", Whiteboard - 24" x 17.25" x 1" (including feet)

Weights: Optical parts set - 3 lb, 7 oz, Whiteboard - 5 lb, 9 oz

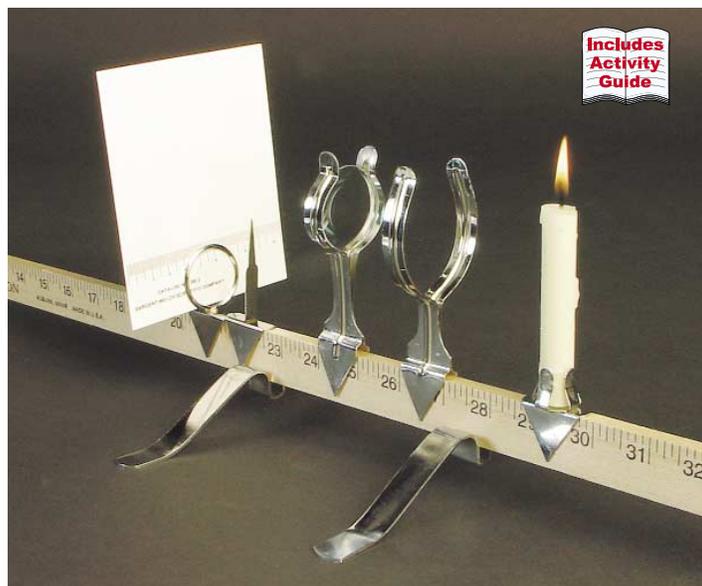
Contents:

- | | |
|--|--|
| 1 23" x 15.5" Whiteboard | 1 Plane Mirror |
| 1 double-ended light box | 1 Adjustable Concave/Convex Mirror |
| 1 Convex Acrylic Lens | 1 Matched Set of Seven Color Filters |
| 1 Concave Acrylic Lens | 1 Set of Seven Corresponding Colored Paddles |
| 1 Semicircular Acrylic Lens | 1 10" x 10" White Card Screen |
| 1 Rectangular Acrylic Block | 1 Card Protractor Circle |
| 1 Acrylic Right Angle Prism | 4 Magnets to hold Protractor |
| 1 Acrylic Equilateral Prism | 1 Experiment Manual |
| 1 Acrylic Equilateral Prism | 1 Storage Box with Molded Inserts |
| 1 30°/60°/90° Prism | |
| 1 Hollow Acrylic Rectangular Cell for Water Refraction | |

Item No.	Description
WBOPS1	Whiteboard Optics Set
WBOPS1-A	Optical Parts Set only
WBOPS1-W	Whiteboard only



METER STICK OPTICAL BENCH



Student optical bench contains sufficient equipment for high school physics applications.

Contents:

- 1 Meter stick
- 1 Screen support
- 2 Lens supports for 38mm and 75mm lenses / mirrors
- 5 Board screens measuring 10 x 12.5cm with a millimeter scale on both sides
- 1 Marker and object
- 2 Metal supports for meter stick
- 1 Candle holder
- 1 Paraffin candle
- 1 Activity guide

Item No.	Description
OBSET1	Meter Stick Optical Bench Set
OBSET2-NS	Optical Bench Set without meter stick
INDIVIDUAL ACCESSORIES:	
OBL38	Lens support, 38mm
OBL75	Lens support, 75mm
OBRK1	Marker and object
OBCNH1	Candle holder, for 1 candle
OBS01	Bulb Holder (not shown)
OBSC1	Screen Support
OBSCR5	Board Screens, pk/5
OBMS02	Metal Supports, pk/2
CLHW02	Wooden Support
OBMST1	Meter Stick

LIGHT SOURCE WITH BATTERY HOLDER



This light source is designed for use with a meter stick optical bench. The 1.5V bulb operates on a single AA battery (not included).

Item No.	Description
OBLSBH	Light source with battery holder

OPTICAL BENCH SET



- Lightweight and Precise Parallel Bar Optical Bench with Scale
- Includes a Set of Accessories for Lens and Mirror Experiments
- Captive Riders for Easy Transport

The Optical Bench Set is designed for basic geometric optics experiments, including imaging by lenses and mirrors. The optical elements are mounted in protective frames with mounting rods for easy alignment, and the four captive riders have an index mark and set screws to secure the rider and optical elements without disturbing their alignment. The bench is 96 cm long and the set includes a pre-focused illuminator with a 12V/6W incandescent lamp, four 50 mm diameter lenses, two mirrors, an object diaphragm, two screens, and an operator's manual. Also includes a 12V/0.5A power supply operating on 110VAC. Includes activity guide.

Item No.	Description
OBSET3	Optical Bench Set

PERISCOPE NEW

Inspired by naval periscopes used on submarines, our handheld periscope is designed to show students the reflective qualities of light. Our version consists of an outer case, with mirrors at each end set parallel to each other at a 45-degree angle.



Shipping weight: 0.5 lbs, dimensions: 8" x 2" x 2".

Item No.	Description
PSCOPE	Periscope

THE MIRAGE

This unique apparatus consists of two specially designed parabolic mirrors positioned one above the other with the concave reflecting sides facing inwards. Light from an object placed at the center of the bottom mirror is reflected by both mirrors to form a real, three-dimensional image at the center of the top mirror. The illusion is so good that many observers try to grasp the image. The diameter is 22.5 cm.



Shipping weight: 14.35 oz., dimensions: 9.5" x 9.5" x 2.5".

Item No.	Description
PRD001	The Mirage (Parabolic Reflection Demonstrator)



PHYSICS - OPTICS

REFLECTION AND REFRACTION TANK



This product effectively demonstrates the laws of reflection and refraction. The 16cm diameter acrylic water tank has a 360° scale and a movable arm carrying a laser activated by a momentary switch. The sharp beam of light produced by the laser can be adjusted to pass the center of the scale. Batteries and an activity guide are included.

Shipping weight: 1.8 lbs, dimensions: 12" x 8" x 9".



Item No.	Description
RRT001	Reflection & Refraction Tank

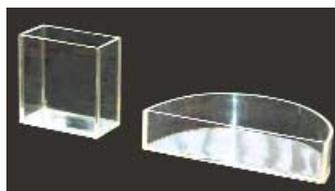
HARTL OPTICAL DISK



Designed to demonstrate laws of reflection and refraction in optics. The set consists of an 11" rotatable disk with a 360° graduated scale, a light shield and a heavy tripod stand. It includes an accessory kit consisting of a plane mirror, a convex lens, a concave lens, a prism, a trapezoid and a semicircular lens, all made of optical glass. Includes activity guide. Requires a light source (not included).

Item No.	Description
HOD001	Hartl Optical Disk

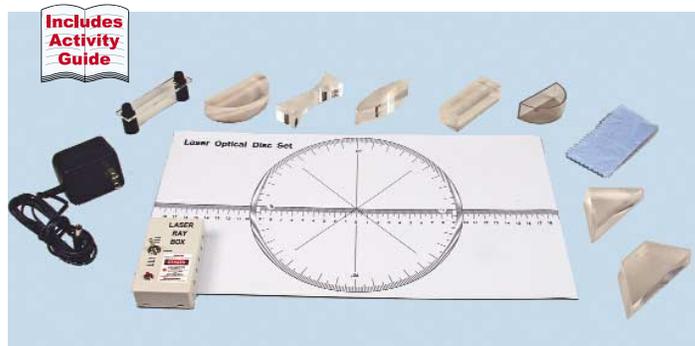
ACRYLIC REFRACTION CELLS



These clear acrylic refraction cells are excellent for showing refraction and internal reflection in water, and to measure its refractive index. The cells have uniform wall thickness to eliminate distortions.

Item No.	Description	Size
RCSC01	Semicircular Refraction Cell	12 cm diameter x 2.5 cm high
RCRC01	Rectangular Refraction Cell	6 cm x 3 cm x 6.2 cm high

LASER OPTICAL DISK SET

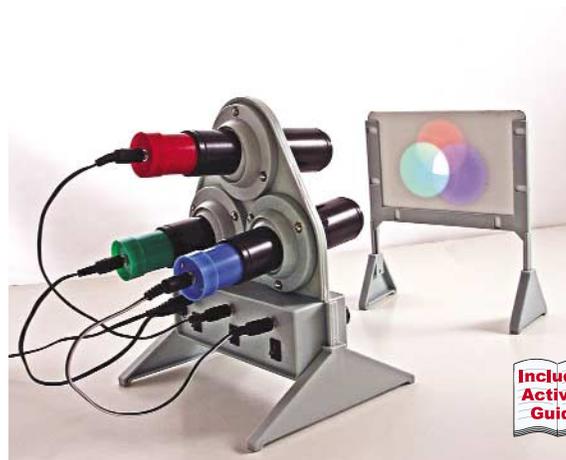


This is an excellent and economical set for introductory ray optics. The laser ray box projects one, three, or five parallel bright beams and is equipped with a momentary switch for safety. A vinyl template with a degree circle and a linear scale forms the optical disk, and the set includes seven clear acrylic optical elements and a mirror with adjustable curvature for investigating refraction, lenses, prisms and mirrors. The bottoms of the acrylic elements are frosted to show the ray paths inside them. The set also includes a manual and storage box.



Item No.	Description
LODS01	Laser Optical Disk Set

COLOR MIXING APPARATUS



A compact and economical Color Mixing Apparatus. This updated version of the classic three color light projector uses three low voltage, high power LED's to project easily-seen red, green, and blue light onto a white screen. The projector mounting allows the beam angles to be adjusted to vary the overlap of the three colored images. The intensity of each LED can be adjusted separately by a potentiometer to give a convincing white light or various shades of mixed colors. Colored shadows can also be explored in a darkened room. The set includes a wall mount power supply and activity guide.

Item No.	Description
CMA001	Color Mixing Apparatus



ALNICO BAR MAGNETS



Powerful Alnico 1 bar magnets, shipped in pairs with end keepers. Magnets are painted with North and South poles clearly marked. Width 1/2", Thickness 1/4".

Item No.	Description	Color
ABM010	Alnico Bar Magnet, 1.00"	Red
ABM015	Alnico Bar Magnet, 1.50"	Red
ABM020	Alnico Bar Magnet, 2.00"	Red
ABM030	Alnico Bar Magnet, 3.00"	Red/Blue
ABM040	Alnico Bar Magnet, 4.00"	Red
ABM060	Alnico Bar Magnet, 6.00"	Red

ALNICO MAGNET SET



Set of 4 powerful alnico magnets with keepers. Set consists of 2 bar magnets 80mm x 15mm x 10mm; a small horseshoe magnet 25mm tall x 8mm wide; and a large horseshoe magnet 35mm tall x 15mm wide. Shipping weight: 1 lb., dimensions: 4" x 4" x 1".

Item No.	Description
MSET4	Alnico Magnet Set of 4

ALNICO CYLINDRICAL MAGNETS

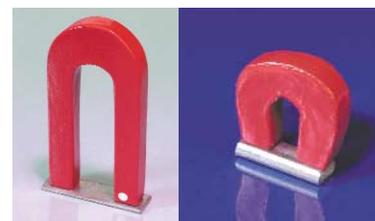
Strong Alnico 1 Cylindrical Magnets, shipped in pairs, with separators and keepers. North pole marked with a dot.



Item No.	Description	Color
ACM020	Alnico Cylindrical Magnet, 5cm X 5mm	Red
ACM050	Alnico Cylindrical Magnet, 12.5cm X 10mm	Red

ALNICO U-SHAPED MAGNETS

Painted Red and supplied with a keeper. Available in 3" (left photo) or 1" (right photo) sizes.



Item No.	Description
MHS030	Alnico U-Shaped Magnet, 3.00"
AUM025	Alnico U-Shaped Magnet, 1.00"

FLOATING MAGNETS SET

We have designed a special stand to replace the pencil, for hands-free demonstration. Magnets are in plastic cases, to reduce breakage. Set contains 6 brightly colored magnetic rings, and the plastic stand, in a cardboard storage box. Shipping weight: 5 oz., dimensions: 7" x 2" x 2". Suitable for ages 11+.



Item No.	Description
CMSET6	Floating Magnets Set

MAGNETS, PLASTIC COVERED

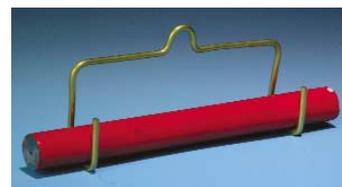
Red and Blue plastic covered bar magnets. These magnets are attractive as well as an easy way to teach magnetic attraction and repulsion. Each magnet's dimensions are 3" x 1" x 0.5".



Item No.	Description
MPC080	Magnets, plastic covered, red/blue (pair)

STIRRUP

Brass support for bar magnets or friction rods. Allows magnets or friction rods to hang freely and turn in a horizontal plane. Hooks are 89mm apart. Shipping weight: 10 grams, dimensions: 3.5" x 2" x 1".



Item No.	Description
MGSTR01	Magnet Stirrup



PHYSICS - MAGNETISM

CERAMIC MAGNETS



We offer a variety of economical ceramic bar, disc, and ring shaped magnets. Magnets are unpainted, except where noted.

Additional sizes can be manufactured to your specifications. Call for prices and minimum order quantities.

Item No.	Description
CBM050	Bar, 50mm Long (Pair), painted
CBM070	Bar, 70mm Long (Pair)
CM9105	Disc, 12mm Dia, 5mm Thick
CM7912	Disc, 25mm Dia, 5mm Thick
CM8305	Disc, 9mm Dia, 6mm Thick
CM7702	Rectangular, 27mm X 8mm X 3mm
CM8602	Rectangular, 40mmx 25mm X 6mm
CM3030	Square 30mm Sides, 3mm Thick, 10mm Hole
CMR018	Ring, 18mm Dia, 5mm Thick
CM8711	Ring, 30mm Dia, 3mm Thick
CM8711-S	Ring, 30mm Dia, 5mm Thick, 12 mm Hole
CM7911	Ring, 38mm Dia, 5mm Thick
CM7907	Ring, 38mm Dia, 8mm Thick, painted
CM7907-PK/2	Pack of 2, 38 x 8mm Rings, 1 Red, 1 Blue

CERAMIC MAGNETS, 6-COLORS

A set of colorful ceramic disc magnets, in six primary colors. Magnets are 25mm in diameter. **Suitable for ages 11+.**



Item No.	Description
CMSET1	Ceramic Magnet Discs, set of 6

COW MAGNET

This magnet is generally fed to cows to attract metal particles they may have ingested while grazing. Students can use it in the classroom for magnetic field demonstration and other interesting experiments. Magnet is approx. 7.5cm long, 2.0cm in diameter, and weighs 100 grams.



Item No.	Description
MGTCOW	Cylindrical "Cow" Magnet

STEEL HORSESHOE MAGNETS



Strong steel magnets, zinc-plated with North and South poles marked. Supplied with keeper.

Item No.	Description
SHM020	Steel Horseshoe Magnet, 2"
SHM030	Steel Horseshoe Magnet, 3"
SHM040	Steel Horseshoe Magnet, 4"
SHM050	Steel Horseshoe Magnet, 5"
SHM060	Steel Horseshoe Magnet, 6"

ECONOMY MAGNET KIT



An exceptional value! This kit includes a variety of Magnets and accessories for teaching basics of magnetism. Comes in a reusable storage box. Shipping weight: 1.5 lbs., dimensions: 9.25"x 9"x 1.5".

- Contents:
- 1 Steel horseshoe magnet
 - 2 Ceramic bar magnets
 - 3 Ceramic donut magnets
 - 4 Metal squares (Iron, copper, aluminum, and zinc)
 - 1 Iron filings pack
 - 1 Lodestone
 - 2 Magnetic compasses
 - 1 Activity Guide, containing 17 experiments

Item No.	Description
MGTKIT	Economy Magnet Kit



LARGE COMPASS

This magnetic compass is extra large (90mm diameter), comes in a bright color plastic case, with a clear plastic top. Shipping weight: 2.0 oz., dimensions: 4"x 4"x 1".
Suitable for ages 11+.



Item No.	Description
CPL090	Compass, 90mm diameter

DEMONSTRATION COMPASS

4" Magnetic needle on plastic support with a brass pivot.



Item No.	Description
MNSB04	Demonstration Compass

PAIR OF MAGNETIC NEEDLES



Two 14-cm long magnetic needles with colored poles are mounted on plastic stands with needle bearings. Use individually as a compass or as a pair to show attraction and repulsion.

Item No.	Description
MNSB05	Pair of Magnetic Needles

LODESTONE

A natural rock that contains traces of iron ore with natural magnetic properties. Measures approximately 2" long.



Item No.	Description
LODE02	Lodestone
LODE02-PK/5	Lodestone, pack of 5

MAGNETIC COMPASSES



Item No.	Picture	Size (Dia.)	Description
C1SG12	A	12 mm	Aluminum case, glass top
C1SG16	B	16mm	Aluminum case, glass top
CBSG18	C	18mm	Aluminum ring, glass top and bottom
C1SG20	D	20mm	Aluminum case, glass top
C1SG25	E	25mm	Aluminum case, glass top
CWR025	F	25mm	Aluminum case, glass top, with ring
CWR030	G	30mm	Aluminum case, glass top with ring
CPL035	H	35mm	Plastic case, plastic top*
CWR045-W	I	45mm	Aluminum case, glass top with ring
CWR045-B	J	45mm	Aluminum case, glass top with ring
CWL045	K	45mm	Aluminum case, glass top with lock

* Suitable for ages 11+

MAGNETIC FIELD DEMONSTRATOR



This is a quick and clean way to visualize magnetic fields. The demonstrator is a transparent acrylic case that holds iron filings suspended in a fluid of appropriate viscosity. When it is placed over a magnet, the field pattern can be viewed directly, or it can be placed on an overhead projector for classroom demonstration. Shipping weight: 10.6 oz., dimensions: 8.75" x 4.75" x 0.5".

Item No.	Description
MGFD03	Magnetic Field Demonstrator

MAGNETIC FIELD DEMONSTRATOR STUDENT VERSION

Iron filings sealed in a transparent plastic case that measures approximately 90mm x 65mm x 6mm. Shipping weight: 40 grams.



Item No.	Description
MGFD01	Student Magnetic Field Demonstrator



PHYSICS - MAGNETISM

TANGENT GALVANOMETER

Classic demonstration of how a current loop generates a magnetic field. Two coils of insulated wire, with 5 and 10 turns respectively, are wound around a 6" diameter plastic ring. The ring is mounted on a plastic base with 3 binding posts that allow connection to five, ten, or fifteen turns of wire. A magnetic compass (included) can be placed on the base to observe and measure deflection of the compass. An activity guide is included. Power source and connecting wires not included.



Includes Activity Guide

Shipping weight: 1 lb., package dimensions: 10" x 7" x 3".

Item No.	Description
TNGV01	Tangent Galvanometer

LARGE U-SHAPED ELECTROMAGNET



Operating on 1.5 to 6 V DC, this electromagnet lifts up to 3.5kg. A current direction indicator is included for the study of the magnetic field.

Shipping weight: 1.10 lbs., dimensions: 6" x 5" x 2.5".

Item No.	Description
EMGT01	Large U-Shaped Electromagnet

AMPERE'S RULE APPARATUS



Includes Activity Guide

This apparatus allows students to study the magnetic field around a wire. A heavy brass wire, with terminals, is arranged on a clear plastic base. Also included are 1 each 45mm compass, and 6 each 16mm compasses and an activity guide. Requires a 12V power supply (not included). Shipping weight: 1lb., dimensions: 7" x 3" x 4".

Item No.	Description
AMPR01	Ampere's Rule Apparatus

ELECTRICITY AND MAGNETISM KIT



Includes Activity Guide

This kit demonstrates all of the major physical principles of electricity, including static electricity, electrical resistance, electrochemistry, electromagnetism, and more. It comes with an activity manual which explains in detail how to perform over 37 different activities. The kit is housed in a convenient plastic storage case.

Shipping weight: 2.25 lbs, dimensions: 12" x 8" x 3.5".

Item No.	Description
EMKIT1	Electricity & Magnetism Kit

ELECTROMAGNET KIT



Includes Activity Guide

This kit is designed for high school students to learn the principles and applications of electromagnets. It includes two coils on plastic spools, a U shape iron core, a straight iron core, two magnetic compasses with stands, and a pair of wires. Students can build a bar-shaped and a U-shaped electromagnet which they power with a 6V battery (not included) or DC power supply (not included), to determine the magnitude and polarity of electromagnetic forces. An instruction manual and a plastic storage case are included.

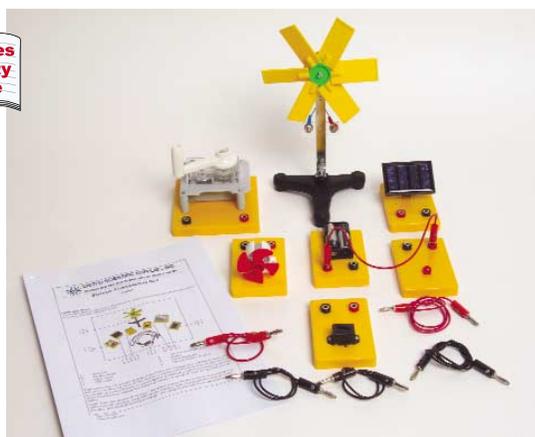
Shipping weight: 7.3 oz., dimensions: 4.5" x 4.5" x 1.5".

Item No.	Description
EMKIT2	Electromagnet Kit



ENERGY CONVERSION KIT

Includes Activity Guide



This economical seven-piece kit lets you demonstrate the conversion between different forms of energy. It includes four devices for generating electrical energy from mechanical motion (hand generator), chemical energy (batteries), light (solar cell) and wind (windmill) and three devices for using electrical energy to generate light (LED) motion (motor) and sound (buzzer). A set of cables is included for connecting the devices to each other in various combinations. Includes activity guide.

Item No.	Description
ECK001	Energy Conversion Kit

PRIMARY AND SECONDARY COILS

Includes Activity Guide

NEW



Superior version of the classic device for investigating electromagnetic induction. Primary and secondary coils are wound on robust molded formers fitted with shielded banana jacks. The plated iron core has a molded handle for accurate positioning in the coils. The primary coil has 175 turns of 18 AWG insulated copper wire (diameter 34mm, length 100mm, resistance 0.43 Ω , self-inductance \approx 3.1mH). Secondary Coil has three available windings with 500, 1000, and 1500 turns of 26 AWG insulated copper wire. (Usually only one available windings on competing products) (diameter 52mm, length 102mm, resistances 11.5 Ω , 23.3 Ω , 35.7 Ω , self-inductances \approx 490mH, 1.97H, 4.43H). Plated iron core is 19mm in diameter and 165mm long (including handle). Includes activity guide.

Shipping weight: 2.25 lbs, dimensions: 4" x 2.75" x 6.75".

Item No.	Description
PSC001	Primary & Secondary Coils

DEMONSTRATION DC MOTOR

Includes Activity Guide



This pre-assembled DC motor is designed for students to learn about electromagnetic forces. The open structure resembles the diagram found in many textbooks. The polarity of the magnets can be reversed to change the direction of rotation. The motor can also be used with a rheostat to observe the change of speed with the change of current. The DC motor can stand vertically or horizontally and operates on a 1.5V battery (not included). It comes in a sturdy plastic storage case with a student activity manual.

Shipping weight: 0.75 lbs., dimensions: 5.5" x 4.5" x 2.5".

Item No.	Description
DMOT01	Demonstration DC Motor

ELECTRIC BELL MODEL NEW

Includes Activity Guide



This well constructed and attractive electric bell model is mounted on a clear acrylic plate and a finished wooden stand to allow the functional parts to be clearly seen. Model operates on 6V DC with an on/off switch, adjustable contact screw, and binding posts for easy connection. Includes activity guide.

Shipping weight: 1 lb., dimensions: 3.5" x 3.5" x 7.5".

Item No.	Description
ELBM01	Electric Bell Model

CREATE-A-CIRCUIT KIT

Includes Activity Guide



Build your own series circuit using the handy Create-a-Circuit Kit. It comes complete with a "D" cell battery holder, a knife switch, two miniature light bulbs, two lamp holders and four connector cords. Includes activity guide.

Shipping weight: 0.25 lbs., dimensions: 7" x 4" x 2".

Item No.	Description
CCK001	Create-a-Circuit Kit



PHYSICS - ELECTRICITY

DELUXE WIMSHURST MACHINE



A strongly-constructed Wimshurst-pattern electrostatic generator with oversized, 12.4" diameter discs, this high quality machine is a great performer. The rigid support pillars, machined from solid PVC, and the high quality bearings guarantee smooth running, even when the hand crank is turned vigorously. The generator reliably produces a 4-cm spark every second. Includes activity guide.

Shipping weight: 7 lbs., dimensions: 14" x 12" x 8".

Item No.	Description
WIMS02	Deluxe Wimshurst Machine

AC/DC GENERATOR DEMO SET



This unique hand generator is an easy yet effective way to teach how AC and DC electricity is produced. Banana plugs can be inserted into the different connectors to change from AC to DC electricity. The unit has a clear base for easy demonstration of connections. Includes activity guide. Shipping weight 2.5 lbs., dimensions: 10"x 7"x 9".

Item No.	Description
ACDCSET	AC/DC Generator Set

MINIATURE DC MOTOR



Operates on 1.5V or 3V DC. Speed: 7000 – 11000 rpm. Motor is 40 mm long x 20 mm in diameter. Shaft size: 2 mm diameter x 8 mm long.

Item No.	Description
DCM015	Miniature DC Motor

HAND HELD GENERATOR NEW



The United hand held generator offers features and quality similar to much more expensive brands currently offered in the science education market. This 6V DC Generator can deliver up to 400mA current. The generator comes equipped with a polarity coded plug in lead with alligator clips. The clear plastic housing allows students to watch the coils, terminals, and gears. Students get a hands-on demonstration of the Second Law of Thermodynamics. Includes activity guide.

Item No.	Description
GENH02	Hand Held Generator

SOLAR POWERED CAR NEW



This economical demonstration solar car can be powered by a solar cell or a rechargeable battery (AA size, not included). Battery can be recharged from the solar cell, demonstrating an electricity storage system for solar power. The solar cell can be tilted to maximize solar input, features an on/off and select function switch, and includes two binding posts to measure output. All working parts are visible through the clear molded housing. Includes activity guide.



Shipping weight: 0.5 lb., dimensions: 6" x 3" x 3".

Item No.	Description
SLRCR1	Solar Powered Car

BATTERY HOLDER SET NEW

This battery holder fits four D cell batteries and is useful for virtually any experiment requiring a low voltage power supply and ships fully assembled. Five color-coded binding posts on the base make for easy, safe, and reliable connections to hook-up cords providing outlets for 1.5V, 3V, 4.5V, or 6V supply voltages.



Battery holder is firmly mounted on a heavy duty base.

Shipping weight: 0.5 lb., dimensions: 7.75" x 4.75" x 1.75".

Item No.	Description
BSH001	Battery Holder Set



EDDY CURRENT DEMONSTRATOR



A simple but effective device for demonstrating Lenz's Law using eddy currents induced in the wall of a copper tube by a falling magnet. The demonstrator consists of a 12" long copper tube and two apparently identical metal slugs with rubber end caps. One slug is plain steel, and falls through the copper tube quickly. The other slug is a strong neodymium magnet that falls very slowly through the tube due to the braking effect of eddy currents. Item includes tube end caps for storing the slugs in the tube and an activity guide.

Item No.	Description
EDYCR1	Eddy Current Demonstrator

CONDUCTIVITY OF SOLUTIONS APPARATUS



This 3V conductivity tester demonstrates the electrical properties of various liquids. The item consists of a molded plastic lamp socket mounted on a base with 2 binding posts for connecting a wire cord. It comes complete with a bulb and glass tumbler. Includes an activity guide.

Item No.	Description
CSA001	Conductivity of Solutions Apparatus

MORSE CODE EXPERIMENT KIT

Discover how people communicated over long distances before the telephone was invented. The Morse Code Experiment Kit is designed to show the principle of a telegraph. The kit consists of a "D" cell battery holder, a telegraph key, a miniature lamp with holder, and three connector cords. Includes activity guide.

Shipping weight: 0.5 lb., dimensions: 7" x 5" x 2".



Item No.	Description
MCE001	Morse Code Experiment Kit

TELEGRAPH KEY



Telegraph key, mounted on a solid plastic base, measuring 11cm x 5cm.

Item No.	Description
TGKY01	Telegraph Key

METERS

Our meters are mounted in black plastic cases. Meters have a scale length of 75mm, offer +/- 2.5% accuracy and come with 5-way binding post and external calibrating screw. Meters are not protected against prolonged or significant overload. Stackable for storage.



Item No.	Description
DC VOLTMETERS:	
MVT001	0-3V; 0-15V; 0-300V
MVT002	0-3V; 0-10V; 0-15V
MVT003	0-3V (0.1V)
MVT004	0-5V (0.1V)
MVT005	0-10V (0.2V)
MVT006	0-5V; 0-15V (0.1V; 0.3V)
DC AMMETERS:	
MAM001	0-50mA; 0-500mA; 0-5A
MAM002	0-1A (20mA); 0-5A (100mA)
MAM003	0-1A (20mA)
MAM004	0-3A (100mA)
MAM005	0-5A (100mA)
MAM006	0-10A (100mA)
DC MILLIAMMETERS:	
MMA001	0-200mA (4mA)
MMA002	0-500mA (10mA)
MMA003	0-500uA (10uA)
MMA004	0-1mA (0.02 mA)
MMA005	0-100mA (1mA)
DC GALVANOMETERS:	
MGV001	-35mV/+35mV (1mV)
MGV002	+/-500-0-500uA (20uA)
MGV003	+/-50-0-50 (2uA)

MULTIMETER



Compact analog multimeter offers popular features such as AC Voltage, DC Voltage, DC current, Ohms, measures capacitance and decibels, and comes with overload protection and diode test. Includes test leads and instruction manual. Operates on 2 AA size batteries (included). Shipping weight: 0.75 lb., dimensions: 6.5" x 5" x 1.75".

Item No.	Description
YX360TRF	Multimeter



PHYSICS - ELECTRICITY

GOLD LEAF ELECTROSCOPE

This sturdy electroscope features a metal case with front and rear glass windows for preventing air currents from affecting the deflection of the leaves. Leaves are gold and aluminum. Leaf support rod is held in place by an insulating plastic sleeve. A graduated scale is also provided for measuring the deflection from 0 to 90 degrees. Includes instructions. Shipping weight: 1.25 lbs., dimensions: 6" x 4" x 8".



Item No.	Description
ELGL01	Gold Leaf Electroscope
ELGL01-FOIL	Spare gold leaves, pk/6

FLASK FORM ELECTROSCOPE

This electroscope is housed in a 250ml borosilicate glass flask with a metal rod attached to a rubber stopper. A pair of aluminum leaves is suspended from an alligator clip. The knob on top of the rubber stopper accepts a charge. When the charge enters the flask, the aluminum leaves separate. Also available are rod and alligator clip assembly for use with your own flask and replacement aluminum leaves.



Item No.	Description
ELFL01	Flask Form Electroscope
ELFL02-pk/3	Electroscope assembly, without flask, pack of 3
ELFL01-FOIL	Spare aluminum leaves, pk/6

LEYDEN JAR

Learn about static electricity and the function of a dielectric with this device. Two aluminum jars - one with an attached aluminum electrode - and one plastic jar are used to collect the charge. Assembled device is 6" tall and 3-1/4" in diameter. Includes activity guide.



Item No.	Description
LYJ001	Leyden Jar

ELECTROSCOPES KIT



Demonstrate key electrostatics concepts with this kit. Contains everything necessary to construct two flask form electroscopes. Detailed activity guide includes experiments using two electroscopes for positive and negative charge studies, and a Faraday's Pail experiment. Kit includes 2 Glass Flasks, 2 aluminum disc terminals, 2 sets of 4 foil leaves, 2 electrode assemblies, one aluminum can (Faraday Pail), 1 hard rubber rod, 1 silk cloth, 1 acrylic rod, and 1 wool cloth.

Item No.	Description
ELKIT1	Electroscopes Kit

FRICTIONAL ELECTRICITY



FRICTION RODS AND PADS
Rods are 12" long. Pads are 12" x 12" (30cm x 30cm).

Friction rods and pads are also available in custom sizes per your specifications.

Item No.	Description
FRICTION RODS	
FRSG12	Solid Glass
FRHG12	Hollow Glass
FRSP12	Solid Plastic
FRHR12	Hard Rubber (Ebonite)
FRHR06	Hard Rubber 6" long
FRSW12	Sealing Wax
FRICTION PADS	
RPSL30	Silk
RPCT30	Cotton
RPWL30	Wool



STUDENT ELECTRICITY ASSORTMENT



Convenient, economical package of materials to start investigating electricity concepts.

Assortment includes:

- 6 Round Plastic Bulb Holders
- 3 Knife Switches
- 6 Battery Holders with Fahnestock Clips
- 10 Fahnestock Clips
- 1 Wire Stripper
- 3 Wires with Alligator Clips, 18" Assorted Colors
- 3 Wires with Banana Clips, 18", Assorted Colors
- 100 feet of Insulated Copper Wire, 22 gauge
- 10 each 1.5 V Bulbs

Item No.	Description
EAKIT1	Student Electricity Assortment

BATTERY HOLDERS



BTHP01-F

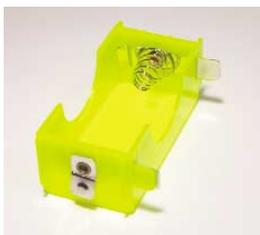


BTHAA1

These battery holders are made of unbreakable plastic. Curved sides help prevent the battery from falling out when it is upside down.

Item No.	Description
BTHP01-F	D Cell Battery Holder with Fahnestock Clips
BTHAA1	AA Cell Battery Holder with Leads
BTHC01	C Cell Battery Holder with Leads (not shown)

"D" CELL BATTERY HOLDER & JOINER



Single holders can be snapped together in parallel or series to extend capacity or voltage.

Item No.	Description
BTHD01	"D" Cell Battery Holder & Joiner

FAHNESTOCK CLIPS

Supplied as a package of 10.



Item No.	Description
FSCP01-PK/10	Fahnestock Clips, pk/10

MINIATURE LAMP HOLDERS



LMPPO1



LMPS01



LMPO2

Suitable for miniature base lamps. Accepts all replacement bulbs listed on this page. Plastic base, with brass screw type receptacle and two terminals.

Item No.	Description
LMPPO1	Miniature Lamp Holder, plastic, screw type
LMPS01	Miniature Lamp Holder, spring posts
LMPO2	Bulb Holder Plastic, Round
REPLACEMENT BULBS	
LMP015-PK/10	1.5 volts, 0.3 amp, pk/10
LMP025-PK/10	2.5 volts, 0.3 amp, pk/10
LMP038-PK/10	3.8 volts, 0.3 amp, pk/10
LMP062-PK/10	6.2 volts, 0.5 amp, pk/10

LAMP BOARDS



Ideal for demonstrating series and parallel circuits. Lamp Boards are supplied with spare bulbs and an activity guide.



Item No.	Description
LMPB01	Lamp Board, 1 Lamp
LMPB03	Lamp Board, 3 Lamps
LMPB04	Lamp Board, 4 Lamps
LMPB05	Lamp Board, 5 Lamps

See above for replacement bulbs.

ALLIGATOR CLIP LEADS



Flexible, 18swg stranded wire cord with alligator clips at both ends. Alligator clips have protective vinyl sheath. 24" long. Pack of 6 (3 red and 3 black).

Item No.	Description
WAG012-PK/6	Alligator Clip Leads, 12", Pk/6, (3 red, 3 black)
WAG024-PK/6	Alligator Clip Leads, 24", Pk/6, (3 red, 3 black)
WAG036-PK/6	Alligator Clip Leads, 36", Pk/6, (3 red, 3 black)
WAG012-R	Alligator Clip Lead, 12", red, each
WAG012-B	Alligator Clip Lead, 12", black, each
WAG024-R	Alligator Clip Lead, 24", red, each
WAG024-B	Alligator Clip Lead, 24", black, each
WAG036-R	Alligator Clip Lead, 36", red, each
WAG036-B	Alligator Clip Lead, 36", black, each

ALLIGATOR CLIPS



2" long, plain, chrome plated, with excellent conductivity. Available in packs of 10 or 100.

Item No.	Description
ACLP01-PK/10	Alligator Clips, plain, Pk/10
ACLP01-PK/100	Alligator Clips, plain, Pk/100



PHYSICS - ELECTRICITY

BANANA PLUG CORDS



Flexible 18swg stranded wire cord with two-way stackable banana plugs at both ends.

Item No.	Length, Package
WBPO12-PK/6	12", 3 red, 3 black
WBPO24-PK/6	24", 3 red, 3 black
WBPO36-PK/6	36", 3 red, 3 black
WBPO12-R	12" red, each
WBPO12-B	12" black, each
WBPO24-R	24" red, each
WBPO24-B	24" black, each
WBPO36-R	36" red, each
WBPO36-B	36" black, each

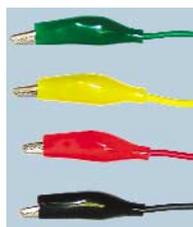
BANANA PLUG/ALLIGATOR CLIP CORDS



Flexible, 18swg stranded wire cord with a stackable banana plug at one end and an alligator clip at the other end. Alligator clip has a protective vinyl sheath.

Item No.	Length, Package
WABO12-PK/6	12", 3 red, 3 black
WABO24-PK/6	24", 3 red, 3 black
WABO36-PK/6	36", 3 red, 3 black
WABO12-R	12" red, each
WABO12-B	12" black, each
WABO24-R	24" red, each
WABO24-B	24" black, each
WABO36-R	36" red, each
WABO36-B	36" black, each

ALLIGATOR CORD SETS WITH SHEATHED CLIPS



Flexible, 24swg stranded wire cord with sheathed alligator clips at both ends. Packages of 10 cords, 2 each of white, yellow, black, red, and green.

Item No.	Length, Package
WAG012-PK/10	Alligator Cord Set, 12" long, Pk/10
WAG024-PK/10	Alligator Cord Set, 24" long, Pk/10
WAG036-PK/10	Alligator Cord Set, 36" long, Pk/10

INSULATED ALLIGATOR CLIPS



2" long, with insulated sleeve, chrome plated, with excellent conductivity. Pack of 10, five each red and black.

Item No.	Description
ACLPR-PK/10	Alligator Clips, insulated, Pk/10

SWITCHES

Knife switches for low voltage experiments (less than 36V) with plastic bases. These items are available with either thumbscrew or spring binding posts.



KSE001



KSW001-K



KSW001

Item No.	Description	Specifications
KSW001	Knife Switch, screw posts	Single pole, single throw
KSW002	Knife Switch, screw posts	Single pole, double throw
KSW004	Knife Switch, screw posts	Double pole, double throw
KSSD01	Knife Switch, spring posts	Single pole, double throw
KSW001-K	Knife Switch, small	Single pole, single throw
KSE001	Economy Switch	1.75" diameter

CONNECTING WIRE



Plastic Insulated Copper Wire (left photo) is 22 gauge, supplied in 100 foot rolls, and available in three colors. Bare Nickel-Chromium Wire (not pictured) is supplied in 4-ounce spools. Enameled Copper Magnet Wire (not pictured) is supplied in 4-ounce spools. Soft Bare Copper Wire (right photo) is available in 4-ounce or 1-pound spools.

Item No.	Description	
PLASTIC INSULATED COPPER WIRE		
WCP22-BK	Black, 100-foot roll	
WCP22-R	Red, 100-foot roll	
WCP22-W	White, 100-foot roll	
NICKEL-CHROMIUM WIRE		
WNC018	18 gauge, 4-ounce spool	
WNC020	20 gauge, 4-ounce spool	
WNC022	22 gauge, 4-ounce spool	
WNC024	24 gauge, 4-ounce spool	
WNC028	28 gauge, 4-ounce spool	
ENAMELED COPPER MAGNET WIRE		
WEC026	26 gauge, 4-ounce spool	
WEC028	28 gauge, 4-ounce spool	
SOFT BARE COPPER WIRE		
Description	4 oz. Item No.	1-pound Item No.
18 gauge	WBC018-4oz	WBC018-1lb
20 gauge	WBC020-4oz	WBC020-1lb
22 gauge	WBC022-4oz	WBC022-1lb
24 gauge	WBC024-4oz	WBC024-1lb

9-VOLT BATTERY CONNECTOR



An insulated snap-on connector with 15 cm red and black leads.

Item No.	Description
BTNV15	9-Volt Battery Connector



FORCES & SIMPLE MACHINES KIT



Includes Activity Guide

This kit contains a variety of custom made and unique components, including Force Board, Inclined Plane, and Vector Board. Also included is a complete set of accessories needed for 15 different activities, including an 11 piece weight set, spring scales, pulleys, levers, support base and rod, and much more. A great value!

To assist the teacher, we have also included a comprehensive lab activities manual (over 60 pages), and a CD containing a slide presentation of all experiments that can be performed.

Shipping weight: 14 lbs., dimensions: 24" x 17" x 7".

Item No.	Description
FSMKIT-01	Forces & Simple Machines Kit

BASIC SIMPLE MACHINES KIT



Includes Activity Guide

This set is ideal for introducing students to the concepts of changing force by levers and pulleys, and the notion of mechanical advantage. The manual describes experiments with the three types of levers, single and double pulley systems, and shows the characteristics of each machine. Shipping weight: 6.5 lbs., dimensions: 22" x 10" x 5".

Set contents:

1 Lever with centimeter scale	1 Base and support rod
2 Pulleys	1 Support rod with clamp
1 Spring scale	2 Hook collars
2 Weight hangers	1 Pulley cord
1 Slotted weight set	1 Experiment manual

Item No.	Description
FSMKIT02-E	Basic Simple Machines Kit

PULLEYS



These free-running and well built pulleys feature 50mm diameter plastic sheaves with deep V-grooves. Metal swivel hooks on both ends.

Item No.	Description
PULS01	Single Pulley
PULD02	Double Pulley
PULT03	Triple Pulley
PULQ04	Quadruple Pulley

TANDEM PULLEYS

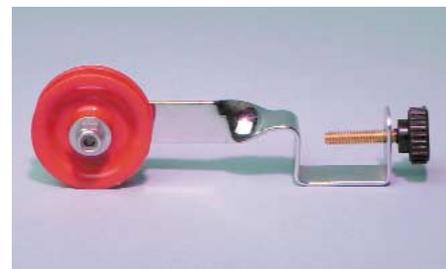


Free-running tandem pulleys feature plastic sheaves, plated aluminum frames, and a hook at each end.

Item No.	Description
PTAN01	Single Tandem, 50mm sheave
PTAN02	Double Tandem, 40 & 50mm sheaves
PTAN03	Triple Tandem, 30, 40 & 50mm sheaves

PULLEY WITH CLAMP

Rugged Plastic Pulley with deep V grooves mounted on a metal clamp. The sheave is 50mm in diameter. Clamp can be mounted on surfaces up to 35mm thick.



Item No.	Description
CLPL01	Pulley with Clamp

PULLEY ON ROD



This sturdy pulley is excellent for use with an inclined plane or any other similar apparatus. It features a 4cm plastic pulley mounted on a chrome plated steel rod. The overall length is 15cm and the shaft diameter is 8mm.

Item No.	Description
PROD01	Pulley on Rod



MULTI-USE BENCH PULLEY *NEW*

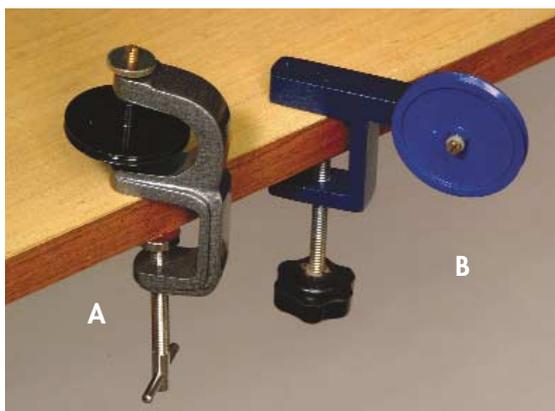
High quality bench pulley with provision for mounting on a stand rod. Constructed of a heavy duty cast aluminum support frame with hard finish. The 50mm diameter aluminum pulley is mounted on heavy duty low friction cone bearings. Fits table tops up to 1-3/4" thick (4.5 cm).

Shipping weight: 0.75 lb., dimensions: 5" x 5" x 2".



Item No.	Description
PULB01	Multi-Use Bench Pulley

BENCH PULLEYS



Both pulleys with table clamps feature sturdy steel frames, and 50mm diameter plastic sheaves. Available in deluxe or student versions.

Item No.	Picture	Description
PULBN1	A	Bench pulley with clamp, 25mm opening, deluxe
PULBN2	B	Bench pulley with clamp, 30mm opening, student

DEMONSTRATION PULLEYS



These jumbo sized pulleys are designed for classroom demonstration. The single, double, triple, and quadruple pulleys are all 70mm in diameter. The pulleys are "open" type - users can run pulley cords through them more easily. Lightweight, low-friction and deformation-resistant plastic ensures accurate results.

Item No.	Description
PUDS01	Demonstration Single Pulley
PUDD01	Demonstration Double Pulley
PUDT01	Demonstration Triple Pulley
PUDQ01	Demonstration Quadruple Pulley

FORCE TABLE



This student force table is a complete set that features a dual scale, allowing students to take readings either clockwise or counterclockwise, four complete weight sets (each with brass slotted weights, 2 x 5g, 4 x 10g, 4 x 20g and a 20g brass weight hanger), four pulleys with clamps and two sets of strings that allows students to investigate the equilibrium of either three or four forces. A bubble level helps students with the setup, and the 16" diameter lightweight, durable table top and sturdy cast iron support allow both ease of use and accuracy. Includes activity guide.

Shipping weight: 28 lbs., dimensions: 15" x 15" x 8".

Item No.	Description
FTE001	Force Table

INERTIA DEMONSTRATOR



This durable Inertia Demonstrator works reliably every time and is a great improvement on traditional versions of this classic experiment. A steel ball rests on a thin metal card on top of a pillar, and a spring-loaded catch is mounted next to the pillar. When the catch is released, a piston strikes the edge of the metal card sharply. The card flies out from under the ball, which remains in place on top of the pillar due to its large inertial mass. The card is tethered to the aluminum base for easy recovery after the experiment. Includes activity guide.

Item No.	Description
IDEM01	Inertia Demonstrator



INCLINED PLANE WITH PULLEY



This versatile and tough steel inclined plane includes a graduated protractor and an adjustable pulley. Incline is 4" wide x 23" long. Includes a 14 oz. roller that can be used as a vehicle on the plane or as a counterweight. Also includes a pan and cord for masses. Includes activity guide.

Inclined Plane with Pulley Shipping weight: 7 lbs, dimensions: 26" x 7" x 3".

Roller only Shipping weight: 1.5 lbs, dimensions: 5.5" x 5.5" x 2.5".

Item No.	Description
INPLO1	Inclined Plane with Pulley
INPLO1-R	Roller only for Inclined Plane

HALL'S CARRIAGE



This Hall's Carriage has a durable plastic body with a roomy well for additional masses (not included). The machined aluminum wheels and axles are mounted on hardened steel cone bearings for minimum friction and long life. For use with all types of inclined plane.

Shipping weight: 0.30 lb., dimensions: 6" x 1.5" x 1.5".

Item No.	Description
HLCRG1	Hall's Carriage

FRICITION ON AN INCLINED PLANE



This complete set includes an inclined plane with a pulley and protractor, a Hall's carriage, a hanging pan to hold the desired weight, two wooden boards of different sizes, and a metal plate. The set is used to demonstrate the resolution of forces on an inclined plane, uniform and accelerated motions, kinetic and potential energies, and the friction between two surfaces. The wooden inclined board is 60 cm long and 10 cm wide. It can be set at any angle between 0° and 45°. The two scales on the protractor allow angle measurements to be made directly or by trigonometry. Students can determine the coefficients of static and sliding friction and verify the normal and frictional components of the force exerted by the plane. The aluminum wheel and cone bearings on the Hall's carriage help minimize friction on the inclined plane. Includes activity guide.

Item No.	Description
INPW02	Friction on an Inclined Plane

ECONOMY INCLINED PLANE



Economical version of the traditional wood inclined plane. 80 cm long x 12 cm wide. Made of MDF. Includes adjustable-angle pulley and a 14mm diameter cross hole for support rod.

Item No.	Description
INPM01	Economy Inclined Plane

PENDULUM BALLS

These drilled balls are excellent for use as pendulum bobs or in impact and collision experiments. Drilled holes are 1/8" in diameter.



Item No.	Description
PNBP01	1" Diameter Plastic Ball
PNBA01	1" Diameter Aluminum Ball
PNBS01	1" Diameter Steel Ball
PNBP75	3/4" Diameter Plastic Ball
PNBA75	3/4" Diameter Aluminum Ball
PNBS75	3/4" Diameter Steel Ball



FAN CART

NEW



A basic, inexpensive Fan Cart powered by two AA size batteries (not included) demonstrates Newton's principle of action and reaction. The batteries are contained in the removable power unit and the fan is controlled by a switch. The propeller delivers a thrust of about 88mN, accelerating the cart at 0.4 m/s^2 . A transparent plate can be attached to show the effect of reversing the airflow. Includes activity guide.

Shipping weight: 0.5 lb., dimensions: 6" x 5" x 5".



A transparent plate can be attached to show the effect of reversing the airflow.

Item No.	Description
FNCRT1	Fan Cart

THE SPILLNOT™

NEW



The design of the SpillNot™ uses the principles of Newtonian physics to keep the liquid in the container. The flexible handle and the location of the suspension point above the center of the tray ensure that the forces on the liquid are always directed towards the supporting tray, even when the tray is in motion. The sideways forces that are usually responsible for spills are not transmitted to the tray by the flexible handle and the radial forces generated during swinging motion only pin the liquid into the container more firmly. An inexpensive demonstration to intrigue students and challenge their analytical powers! Includes activity guide.

Shipping Weight: 0.25 lb., dimensions: 5" x 5" x 9".

Item No.	Description
SPNT01	The SpillNot

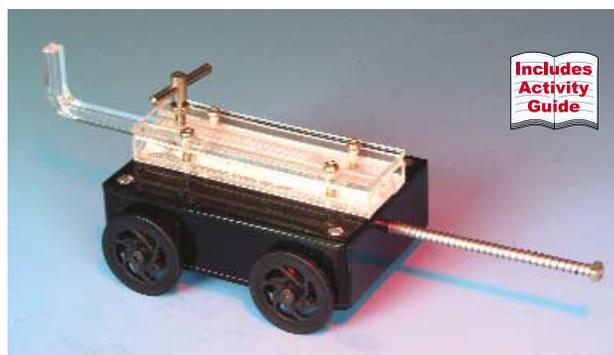
BALLISTICS CAR



Push the cart and eject the steel ball from the spring-loaded barrel. The ball falls back into the barrel of the moving car, demonstrating that the forward motion of the ball is the same as the vehicle from which it was ejected. Comes with a steel ball, release pin and cord. The barrel permits two different heights of ball flight. Includes activity guide.

Item No.	Description
BLCAR1	Ballistics Car

IMPACT CAR



Sturdy plastic impact car features a graduated spring scale and a slide that is displaced on impact against an obstacle. Includes activity guide.

Item No.	Description
IMPACT1	Impact car, plastic



MAXWELL'S WHEEL

Includes
Activity
Guide



This classic device is used to demonstrate the conservation of mechanical energy and its conversion from one form to another. After the wheel is rotated by hand to roll the supporting cords to the top and then released, its potential energy turns into kinetic energy of rotation as it falls. After the wheel reaches its bottom position, the kinetic energy changes back to potential energy as it rolls the cords up again. This process continues until all the energy is lost to friction. All metal construction. Includes activity guide.

Shipping weight: 6.5 lbs., dimensions: 12.5" x 5.5" x 18".

Item No.	Description
MAXW01	Maxwell's Wheel

DEMONSTRATION BALANCE SUPPORT



Sturdy support for meter stick demonstration balances and torque experiments. The cast metal support is 18.5 cm high. Requires knife-edge clamps, slotted weights and hangers, and a meter stick.

Shipping weight: 0.5 lb., dimensions: 7" x 3" x 3".

Item No.	Description
DBS002	Demonstration Balance Support

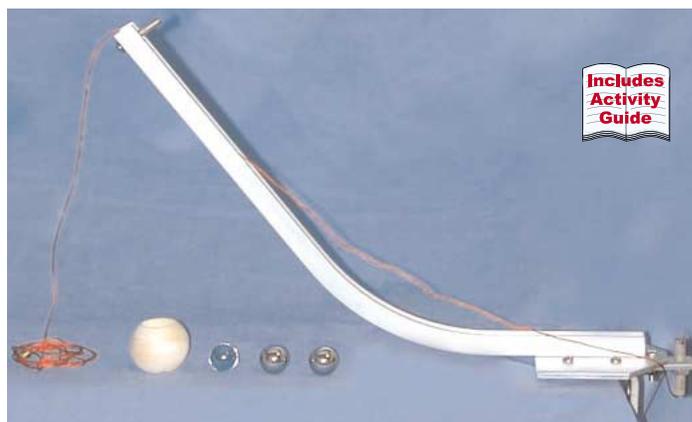
WHEEL & AXLE



This is a classic device for demonstrating mechanical advantage and the conservation of energy. It consists of a single stepped wheel with four coaxial steps of 35, 50, 65, and 105 mm diameter. The wheel is supported on a steel rod by a ball bearing.

Item No.	Description
WAXL01	Wheel & Axle

COLLISION IN TWO DIMENSIONS



Includes
Activity
Guide

This apparatus allows students to investigate conservation of momentum and kinetic energy change in collisions. It can also be used to compare elastic and inelastic collisions. A flat base supports a curved aluminum track and an adjustable target support. The kit includes 2 steel balls, a glass ball, a hollow wooden ball, and a plumb line. Includes activity guide.

Shipping weight: 2 lbs., dimensions: 20" x 13" x 10".

Item No.	Description
CTDA01	Collision in Two Dimensions Apparatus, with built-in table clamp

KNIFE EDGE LEVER CLAMP

This clamp can be attached to any standard meter stick. It is used as a knife-edge fulcrum for supporting the meter stick in the inverted position.



Item No.	Description
CLMKE1	Knife Edge Lever Clamp



HOOKE'S LAW APPARATUS

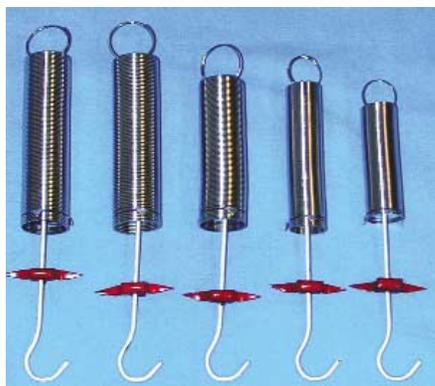


Quantitatively show the principles related to Hooke's Law with this complete apparatus. Includes a 14" metal rod that mounts on a 4-1/2" diameter base. Scale in centimeters and inches can be easily adjusted along the rod. The plated steel weight holder and spring are attached to an adjustable collar with crossbar. Includes activity guide.



Item No.	Description
HKLW12	Hooke's Law Apparatus

SPRINGS FOR HOOKE'S LAW



A set of 5 springs with different spring constants. The forces required for a 1 cm extension are 0.25N, 0.5N, 1N, 1.5N, and 2.5N respectively. Pre-stress has been removed for accurate results. With a hook to support a weight hanger and a red arrow to indicate position.

Item No.	Description
HKLWS5	Springs for Hooke's Law

FREE FALL APPARATUS



This convenient free fall apparatus for measuring the acceleration of gravity has a 150 cm fall length. It comes with an electromagnetic ball release, a pair of photogates on a long cable harness, two steel balls, a plumb line, a catcher, and an instructional manual. Requires the Digital Timer DTPHG1 (not included). More detailed description available upon request. Includes activity guide.

Shipping weight of FFA001: 5 lbs., dimensions: 75" x 6" x 7".

Item No.	Description
FFA001	Free Fall Apparatus
DTPHG1	Digital Timer with Photogates

FREE FALL TUBE



An economical version of a classic device! It demonstrates that all objects experience the same gravitational acceleration and fall at the same speed in a vacuum, but in air the air resistance slows down some objects more than others. Features a disc and a feather in a tough, clear, plastic tube, 90cm long and 4.5cm diameter, with rubber end caps and hose cock for connection to any standard vacuum pump (not included.) Includes activity guide.

Shipping weight: 1.6 lbs., dimensions: 40" x 3" x 3".

Item No.	Description
FFT001	Free Fall Tube



Includes Activity Guide

STIRLING ENGINE *NEW*



This economical Stirling Engine runs by exploiting the heat flow generated by the small temperature difference between room temperature and a cup of hot water or ice. It is a classic illustration of converting heat energy into mechanical work using a thermodynamic cycle. The engine runs at about 150rpm when used with cup of hot water. Additional information available upon request. Includes activity guide.

Shipping weight: 1.25 lbs., dimensions: 7" x 5" x 5".

The engine runs fast on a glass of hot water -



- it slows down later as the top plate warms up -



- and is revived by ice on the top plate.

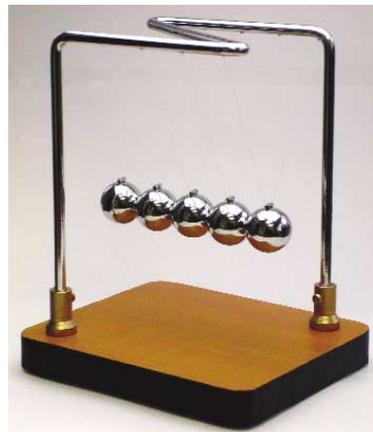


The engine also runs in the opposite direction on a glass of ice water.

Item No.	Description
LTDSE1	Low T-Difference Stirling Engine

Includes Activity Guide

NEWTONIAN DEMONSTRATOR

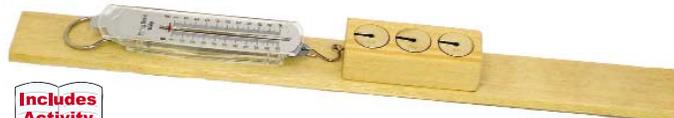


Excellent for illustrating Newton's Third Law of Motion and the principle of Conservation of Momentum. The five polished metal balls with thin bifilar suspensions on a unique support design provide for better results and stability. Includes activity guide.

Shipping weight: 1.15 lbs., dimensions: 5.5" x 6" x 7".

Item No.	Description
NWDM01	Newtonian Demonstrator

FRICITION APPARATUS



Includes Activity Guide

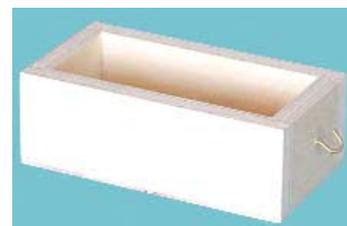
This set includes a friction block and a friction board, both made of high quality, smoothly finished pine wood. The friction block has a hook for a spring scale and three compartments for additional weights. It can be placed face-up or sideways. Students can vary the weight or area of contact to test their impact on the frictional force. The set comes with three 50g weights and a 100g spring scale. The board is 20" x 2" and the block is 4" x 1.5" x 1". Includes activity guide.

Shipping weight: 1.1 lbs., dimensions: 20" x 2.25" x 2".

Item No.	Description
FRAP01	Friction Apparatus

FRICITION BOX

This friction box is used for coefficient of friction studies when larger loads are required. The 6" x 3.5" x 2.5" box will accommodate a load of 2 kg or more. Smooth sanded wood with two leather strips attached to the bottom.

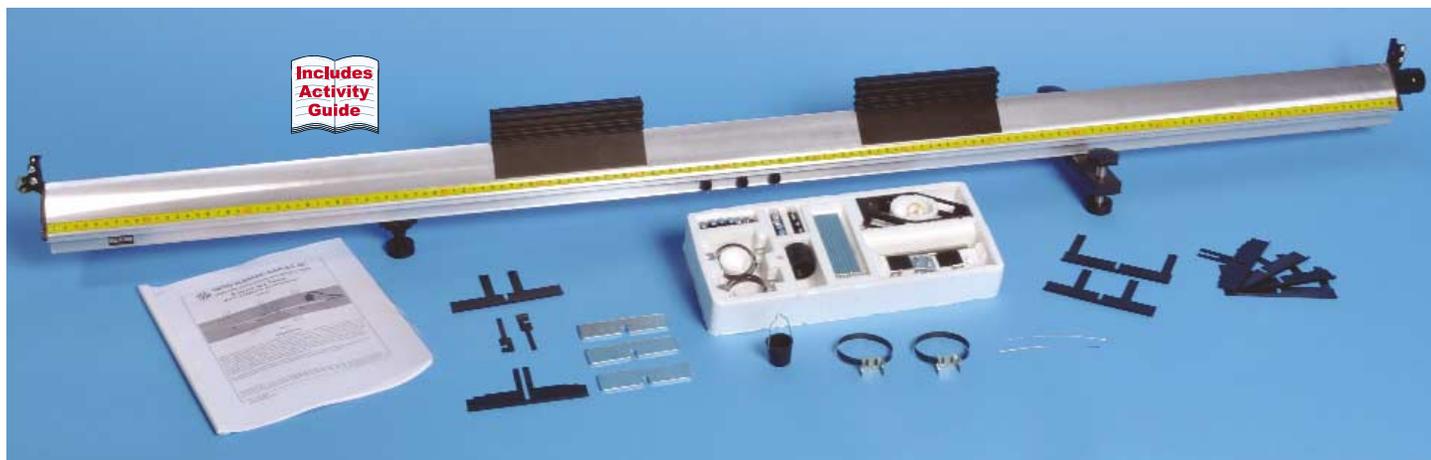


Shipping weight: 0.5 lb., dimensions: 7.5" x 4" x 3".

Item No.	Description
FRBX01	Friction Box



AIR TRACK AND ACCESSORIES



Includes Activity Guide



ATRK01 Air Track includes a large assortment of accessories.

This air track is constructed of high quality aluminum alloy and has the advantages of being both lightweight & highly durable. Precision machining provides a smooth surface and high linearity. It comes with a comprehensive accessory package for experiments in linear motion. The track length is available in 150cm or 200cm sizes, and is straight to better than 0.1mm throughout. Includes activity guide.

NOTE: This item requires an air source, item QAS001 or QAS001-V, and a digital timer with photogates, item DTPHG1 (not included). More detailed description available upon request. Shipping weight: 16 lbs., dimensions: 64" x 7" x 10".

Item No.	Description
ATRK01	Air Track and Accessories, 150cm
ATRK02	Air Track and Accessories, 200cm

QUIET AIR SOURCE



This low noise (<58dB) air source is an ideal accessory for air tracks, air tables, and other pneumatic equipment in physics labs. The 250W motor produces a clean air output with a flow rate of 35 m³/hour at a 0.70 kPa overpressure.

Shipping weight: 12 lbs., dimensions: 16" x 19" x 10".

Item No.	Description
QAS001	Quiet Air Source
QAS001-V	Quiet Air Source with Variable Output

DIGITAL TIMER WITH PHOTOGATES

This four-digit timer is designed to be used with air tracks, free fall apparatus and other equipment. It is microprocessor-controlled and offers eight programmed functions to record counts, time intervals, periods of oscillation, accelerations, acceleration due to gravity, and velocities in collisions. It comes with two photogates. Includes activity guide. More detailed description available upon request.



Includes Activity Guide

Item No.	Description
DTPHG1	Digital Timer with Photogates
DTPHG1-P	Pair of Photogates with Brackets



TUNING FORKS

Made of Aluminum alloy. The frequency and scale letter is stamped on each fork.



Item No.	Description/Frequency	Note
TFK100	100	-
TFK128	128	C
TFK256	256	C'
TFK288	288	D'
TFK320	320	E'
TFK341	341.3	F'
TFK384	384	G'
TFK426	426.6	A'
TFK480	480	B'
TFK512	512	C''
TFK640	640	E''
TFK1024	1024	C'''
TFK2048	2048	C''''
TFK4096	4096	C'''''
TFSET8	Set of 8 - 256 to 512	
TFSET13	Set of 13 - 100 to 4096	

TUNING FORK BOXED SETS

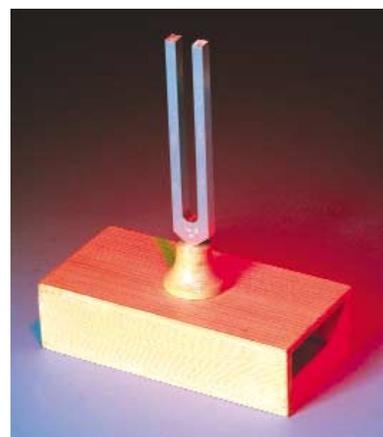


Our best-selling Tuning Fork Sets now come in a wooden box with foam lining. Each tuning fork has a specific place in the foam lining die-cut for easy storage. Each set also contains a mallet specially designed with one hard and one soft end, for use with all frequencies of forks.

Item No.	Description
TFBOX8	Tuning Fork set of 8, with mallet, in wooden box; contains one each of 256, 288, 320, 341.3, 384, 426.6, 480, and 512 Hz.
TFBOX13	Tuning Fork set of 13 with mallet, in wooden box; contains one each of 100, 128, 256, 288, 320, 341.3, 384, 426.6, 480, 512, 1024, 2048, and 4096 Hz.

RESONANCE BOX WITH TUNING FORKS

Each unit consists of a wooden resonator box, tuning fork, and a tuning fork mallet. Resonator box is 18cm x 9cm x 5cm. Available in 3 tuning frequencies listed below. Additional frequencies can be made per your specifications.



Item No.	Description
TFRB256	256 Hz / C'
TFRB320	320 Hz / E'
TFRB341	341.3 Hz / F'

TUNING FORK & STRIKER SET



Discover the science of music with the Tuning Fork and Striker Set. The 256Hz tuning fork is made of high-quality aluminum alloy and has been accurately calibrated. A rubber hammer striker for sounding the tuning fork is included. The resonance frequency is stamped on the tuning fork.

Item No.	Description
TFSS01	Tuning Fork & Striker Set

TUNING FORK HAMMERS



TFWHAM



TFHAMR

Specially constructed hammers for sounding tuning forks. TFWHAM has a spherical hard rubber head on a varnished hardwood handle. TFHAMR has an acrylic head with a rubber end mounted on a metal/wooden handle.

Item No.	Description
TFWHAM	Rubber Hammer
TFHAMR	Tuning Fork Mallet



WAVE MOTION DEMONSTRATOR



This outstandingly versatile transverse wave machine consists of a series of pendulums independently suspended on a common base and coupled together by long, light springs. It has two modules with 21 pendulums each, a damping unit with a paddle and water bath, and a motor-powered eccentric driver for controlled excitation of traveling or standing waves. The ends of the pendulums are bright yellow for excellent visibility of the wave pattern. Coupling hardware is supplied so that the Demonstrator can be used with either a single module or with both modules coupled to make a longer machine. A brake mechanism allows all the pendulums to be arrested simultaneously, "freezing" the momentary pattern of the pendulums. Basic phenomena in transverse wave propagation can be clearly shown. Using the damping module, running waves can be generated and standing wave patterns, wave reflection, and superposition can be shown when the damping module is removed. More detailed description available upon request.

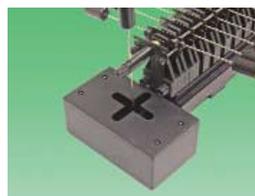
Shipping weight: 15.5 lbs., dimensions: 26" x 12" x 9".



Modules can be used independently or together as a longer machine.



Pendulums are independently suspended on a common base and coupled together by long, light springs.



The damping unit with paddle and water bath can be used to generate running waves.



Motor powered eccentric driver can create traveling or standing waves.

Item No.	Description
WMD001	Wave Motion Demonstrator

RIPPLE TANK



This device demonstrates the generation, propagation, reflection, interference and diffraction of waves. It comes with all accessories necessary for these experiments. A 6VDC power source and an overhead projector are required (not included). Includes activity guide.

Shipping weight: 5.5 lbs., dimensions: 15.5" x 12" x 4".

Item No.	Description
RPLTNK1	Ripple Tank

WAVE DEMONSTRATOR SET



Set includes two helical springs and a length of cotton string. The long, narrow spring measures 3/4" x 72", and can be extended up to 5 meters. The larger spring measures 3" x 4", and can be extended many times its length without distortion. Includes activity guide. Shipping weight for WDSSET1: 2.5 lb.

Item No.	Description
WDSSET1	Wave Demonstrator Set (both springs and cotton string)
WDS006	Spiral Spring, 3/4" x 72"
FCS003	Flat coiled spring, 3" x 4"



DENSITY CUBE SET



The set includes one each of acrylic, oak, pine, poplar, steel, aluminum, copper, brass, nylon, and PVC cubes. The set of 1" cubes is packaged in a wooden storage box. An economy version, DCSET4, consists of one each acrylic, pine, nylon, and aluminum cubes packaged in a poly bag.

Item No.	Description
DCSET10	Density Cube Set of 10 in Wooden Storage Box
DCSET4	Density Cube Set of 4

BELL JARS



These bell jars are made from borosilicate glass, with a knob to facilitate handling. The bottom rim provides an excellent seal, and the jars are safe at high pressures. Available in three sizes.

Item No.	Description
BLJAR1	Bell Jar, 125mm (5") O.D. x 250mm (9") H
BLJAR2	Bell Jar, 150mm (6") O.D. x 300mm (11") H
BLJAR3	Bell Jar, 225mm (8.5") O.D. x 400mm (15") H

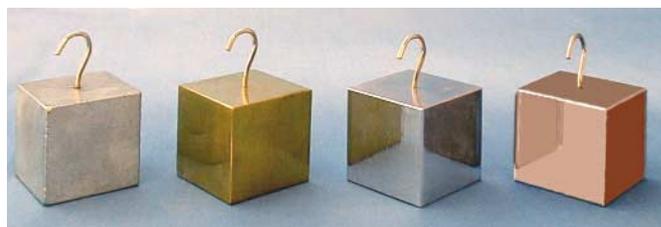
SPECIFIC GRAVITY BOTTLES



These uncalibrated specific gravity bottles are excellent for determining the specific gravity of liquids. The borosilicate bottles have a ground stopper joint for a precision fit. Available in 10 ml or 25 ml sizes.

Item No.	Description
SGB010	Specific Gravity Bottle, 10 ml
SGB025	Specific Gravity Bottle, 25 ml

DENSITY BLOCKS, SET OF FOUR



These blocks demonstrate the density of four different materials—aluminum, brass, steel and copper. Each cube measures 3.2 cm on every side, and has a hook. Specification sheet included.

Item No.	Description
SGHC04	Density Blocks, Set of Four

Density cubes, blocks and rods can be custom sized or assembled into sets per your specifications. Please contact us to discuss your specific needs.

DENSITY BLOCKS



- Dense wood cube 1" sides, average weight 16 grams / cube
- Soft Wood Block, 2" x 2" x .125"
- Steel Block, 2" x 2" x .125"
- Aluminum Block, 2" x 2" x .125"

Item No.	Description
WDC001	Dense Wood Cube
WDS2X2	Wood Block
SSP2X2	Steel Block
AMS2X2	Aluminum Block

DENSITY ROD



Machined aluminum cylinder floats in cold water, but sinks in warm water. Includes activity guide.

Measures 0.65" diameter x 3.5" long. Weight is 0.5 ounces.

Item No.	Description
DNROD1	Density Rod



SPECIFIC GRAVITY SPECIMEN SETS



SGVC04

Includes aluminum, copper, steel, and brass cylinders.



SGMC05

Includes aluminum, zinc, tin, steel, and copper cylinders.



SGVS04

Includes copper, aluminum, brass, and steel squares.



SGMD05

Includes acrylic, PVC, nylon, aluminum and brass cylinders.

A variety of cylindrical and square specimen sets for density and specific gravity studies. Each set comes in a set up box for easy storage, and includes an activity guide! Each component is also available individually. Contact us for details.

Item No.	Description
SGVC04	Equal volume metal cylinders, set of 4
SGVS04	Equal volume metal squares, set of 4
SGMC05	Equal mass metal cylinders, set of 5
SGMD05	Equal mass diverse materials cylinders, set of 5

ARCHIMEDES' PRINCIPLE APPARATUS, LARGE



This new model has a much larger capacity (100ml) than the traditional aluminum model (22ml) for higher accuracy and easier operation. Also, both the cylinder and the cup have marked divisions which allow the students to repeat the experiment with different volumes. The cylinder is made of white nylon. This item requires a 200g spring scale, an overflow can and a beaker (not included). Includes activity guide.

Shipping weight: 6.25 oz., dimensions: 3" x 3" x 3".

Item No.	Description
BCL002	Archimedes' Principle Apparatus, Large

BUCKET AND CYLINDER

(Archimedes Principle Apparatus)

Consists of solid metal cylinder in a close fitting metal bucket, 19mm in diameter, 50mm long. Shipping weight 3 oz., dimensions: 4" x 1.5" x 1.5".



Item No.	Description
BCL001	Bucket and Cylinder

OVERFLOW CAN AND BUCKET SET

Aluminum overflow can and catch bucket packaged as a convenient set for use in Archimedes' Principle, density, and specific gravity experiments.

Overflow Can measures 4" I.D. x 5"H and has a capacity of approximately 800 ml. Spout is 0.5" I.D. x 1.5"L.

Catch Bucket with detachable aluminum handle measures 4" I.D. x 3"H.



Item No.	Description
OFLSET	Overflow Can and Catch Bucket Set
OFLCN1	Overflow Can only
CABKT1	Catch Bucket only



RADIOMETER



Our Radiometer is made from a glass bulb from which much of the air has been removed. Inside the bulb, on a low-friction spindle, is a rotor with 4 vanes. Each vane has one blackened side and one silvered side; one black vane features a white dot in order to count rotations easily. When exposed to sunlight or artificial light, the vanes turn with no apparent motive power. This effect is due to differential heating of the black and silvered vanes. Shipping weight: 0.3 lb., dimensions: 6" x 4" x 4".

Item No.	Description
RADIO1	Radiometer

DOUBLE WALLED CALORIMETER



This calorimeter consists of two nested aluminum cans separated by a 1.7cm thick Styrofoam liner and a clear molded plastic lid with a filler cap. A plastic insulator ring protects the Styrofoam insulation against damage and liquid spills. The inner reservoir has a capacity of 150ml. A thermometer stopper and an insulated stirrer are included. Includes activity guide. Shipping weight: 0.5 lb., dimensions: 7" x 4" x 4".

Item No.	Description
CLRM01	Double Walled Calorimeter

HEAT CONDUCTOMETER



This item is used for comparing the thermal conductivities of aluminum, brass, steel, nickel, and copper. The five radial spokes are attached to a brass hub. Each rod is marked with the metal name on the hub. There are notches in each rod to hold a wax pellet. The unit comes assembled and with a supply of wax. Includes activity guide. Shipping weight: 4.45 oz., dimensions: 14" x 7" x 1".

Item No.	Description
CNDM01	Heat Conductometer

BIMETAL STRIP / COMPOUND BAR



A quick and easy tool for demonstrating thermal properties of matter. Bar is bi-metallic and has a wooden handle attached. When heated, the bar bends dramatically. Includes activity guide. Shipping weight: 0.25 lbs., dimensions: 9" x 1" x 1".

Item No.	Description
BMST05	Bimetal Strip

BALL AND RING APPARATUS



All brass construction, with black lacquer finish wood handles. Includes activity guide.

Item No.	Description
BRA001	Ball and Ring Apparatus

SIMPLE ANEMOMETER



This simple tool measures wind speed and direction. The wind speed range is 0 to 17 meters per second ($\pm 10\%$). The direction indicator is divided into 16 compass points. A built-in compass is provided. Shipping weight: 0.25 lb., dimensions: 9" x 6" x 6".

Item No.	Description
ANMM01	Simple Anemometer

ANEROID BAROMETER



Mounted on a plastic base, with a ring for easy hanging. Includes an instruction sheet. Overall diameter is 7.5". Shipping weight: 1.4 lbs.

Item No.	Description
ANBR01	Aneroid Barometer



METAL MAGDEBURG HEMISPHERES



These heavy duty Magdeburg Hemispheres are closer to the original version than the plastic or rubber models. Thick cast iron walls and large steel handles make this item extremely durable. Plated brass valve and precision machining prevent leakage. Includes activity guide. Shipping weight: 4.5 lbs., dimensions: 7.25" x 4.5" x 4.25".

Item No.	Description
MGH001	Metal Magdeburg Hemispheres

FOOT PUMP

This foot operated air pump is equipped with a 15" hose with locking valve and features a pressure gauge. Ideal for use with Rocketry kits.



Item No.	Description
APF001	Foot Pump

HAND AIR PUMP



This pump features a steel barrel, steel valve assembly, and a wooden handle. Both in and out ports are equipped with hose connectors, for use with vacuum experiments as well as to generate pressure. Creates vacuum of 20" Hg. Length 14", barrel diameter 1". Shipping weight: 1 lb.

Item No.	Description
HAP001	Hand Air Pump

BOYLE'S LAW APPARATUS



This low cost apparatus is great for demonstrating Boyle's law (elasticity of gases). A plastic syringe is mounted on a wooden base. A piston is mounted to a platform that holds various size weights, allowing students to plot pressure versus volume of gases in the cylinder. Includes activity guide.

Shipping weight: 1.0 lb., dimensions: 9"x 6"x 2".



Item No.	Description
EGA001	Boyle's Law Apparatus

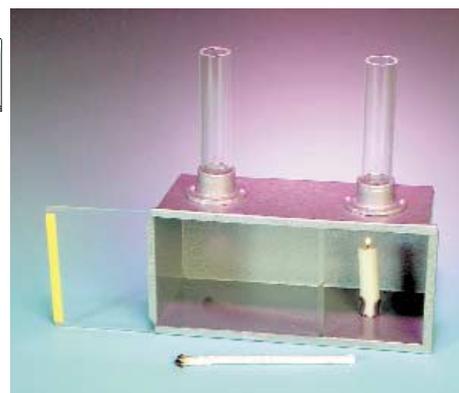
HYDROMETERS



Hydrometers for determining the specific gravity of liquids. Two specific gravity ranges available. Each unit is housed in a re-usable storage tube. We also carry hydrometer cylinders (see page 80 of this catalog).

Item No.	Description	Specific Gravity Range
HYML01	Light Liquid Hydrometer	0.700 - 1.000
HYMH02	Heavy Liquid Hydrometer	1.000 - 2.000

CONVECTION OF GASES APPARATUS



This apparatus consists of a metal box (22 x 10 x 11cm), with clear acrylic front panel, two glass chimneys, a candle, and a cotton filled wick as the smoke source. An instruction sheet is also included. Our unit features superior metal box construction, and a shatter-proof front panel. Shipping weight: 1.25 lbs.

Item No.	Description
CGA001	Convection of Gases Apparatus



ADVANCED PHYSICS EQUIPMENT

The items shown on these pages are suitable for more advanced Physics labs. More detailed technical descriptions, and sample copies of the manuals are available on request. We do not hold stock of these items, but we can obtain any of them in approximately 90 days.

CAVENDISH GRAVITATIONAL BALANCE



Unique small scale version of the famous Cavendish experiment to verify Newton's Law of Gravity and measure the Universal Gravitational Constant, G . This unit is remarkable for measuring the tiny value of G by simple, easily-understood means.

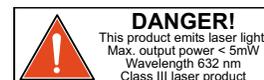
Item No. CGB001

LASER OPTICS DEMONSTRATOR



Comprehensive set of equipment with built-in He-Ne laser. Top quality optical glass components allow over 75 experiments in geometric and physical optics.

Item No. LOD001



FOUCAULT'S PENDULUM

Display version of the Foucault 1851 experiment to demonstrate the Earth's rotation. The 57" high unit contains a maintained pendulum whose precession rate can also be used to calculate latitude or time.

Item No. FCPN01



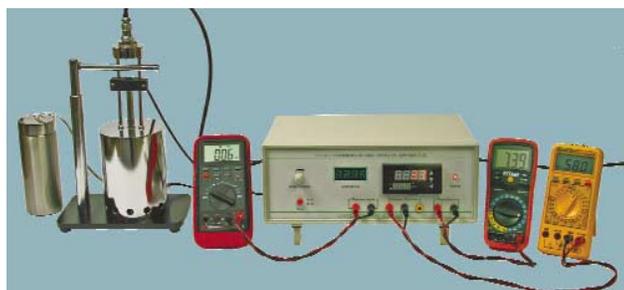
MICHELSON & FABRY-PEROT INTERFEROMETER

High precision interferometer with interchangeable optics for Michelson or Fabry-Pérot setups. 200 mm precision geared lead screw for fine adjustment.

Item No. MFPI01



THERMOELECTRIC EFFECTS APPARATUS



This apparatus allows the thermal behavior of a resistor, thermistor, and thermocouple to be studied, as well as a closed loop control system.

Item No. THEA01

MILLIKAN OIL DROP APPARATUS



Classic Oil Drop Experiment for measuring the electron charge. Features double draft shield system, CCD microscope camera and computer control for the experiment and evaluation.

Item No. MODA01



PHYSICS - ADVANCED PHYSICS

PHOTOELECTRIC EFFECT APPARATUS



Set of equipment for studying the photo-emission of a mixed alkali photocathode. Precise, stable illumination and bias control for excellent results.

Item No. PEEA01

PLANCK'S CONSTANT APPARATUS

A precision device for measuring Planck's Constant and the work function of electrons in cesium. The apparatus includes five precision plug-in LED modules, a vacuum photocell, an integrated voltmeter and nanoammeter, and control circuitry, all in a compact, lightweight unit. The high quality stabilized LED supply and amplifier yield results for h to better than 5%.

NEW



Item No. PLCN01

LORENTZ FORCE DEMONSTRATOR



Classic "fine beam tube" set for the visual and quantitative demonstration of electron beam properties and the measurement of e/m . The compact apparatus has a built-in power supply and is housed in a metal case for easier beam visibility.

Item No. LFD001

COMPLETE PROPERTIES OF ELECTRONS APPARATUS

Comprehensive equipment set for studying the electric and magnetic properties of an electron beam. CRT tube, power supplies, and deflection coils are housed in a compact case. Allows e/m to be measured.

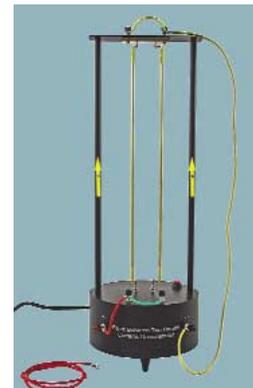
Item No. PEA001



FORCE BETWEEN CONDUCTORS DEMONSTRATOR

Reliable and dramatic demonstration of the magnetic force between two current-carrying parallel conductors. Safely applies a large current to two pivoting brass tubes. Fuse protected.

Item No. FBCD01



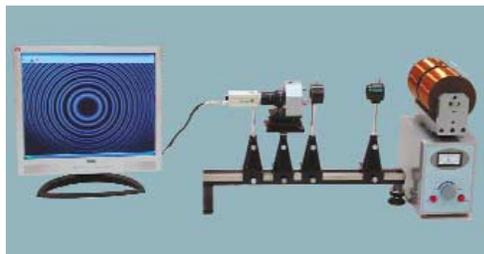
FRANCK-HERTZ APPARATUS

Set of equipment used for observing the excitation transitions of electrons in Argon. Compact unit includes Argon tube, power supplies and amplifier in one box. Oscilloscope required.

Item No. FHA001



COMPLETE ZEEMAN EFFECT APPARATUS



Set of equipment for studying the Zeeman Effect in the mercury green line at 545.1 nm. Includes a 1.0T electromagnet that allows longitudinal or

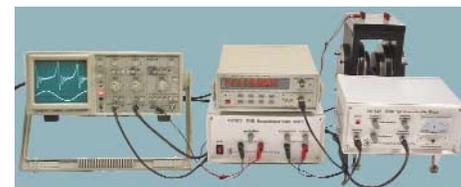
transverse viewing, a mercury lamp, interference filter and lens, a 2.0mm gap Fabry-Pérot etalon, a CCD camera and capture card, and evaluation software.

Item No. ZEA001

NUCLEAR MAGNETIC RESONANCE APPARATUS

Set of equipment for studying the nuclear magnetic resonance of protons in hydrogen and fluorine and measuring the gyromagnetic ratio, Landé factor, and nuclear magnetic moment of these nuclei. Includes permanent magnet, oscillator, frequency counter, and power supply. Requires an oscilloscope.

Item No. NMRA01





WEIGHTS AND WEIGHT BOXES



AWB100

Weights are made of brass, with nickel plated surfaces. All weights are carefully tested and calibrated.

Analytical Weight Box contains 9 weights (1 each of 1g, 5g, 10g, 50g and 100g sizes, and 2 each 2g and 20g sizes), in polished wooden box, with a 1 to 500 mg fractional weight set, 5mg rider and forceps.



Hooked Masses

Item No.	Description
AWB100	Analytical Weight Box
INDIVIDUAL MASSES	
ABW001	1 g
ABW002	2 g
ABW005	5 g
ABW010	10 g
ABW020	20 g
ABW050	50 g
ABW100	100 g
HOOKEO MASSES	
WHB005	5 g
WHB010	10 g
WHB020	20 g
WHB050	50 g
WHB100	100 g
WHB200	200 g
WHB500	500 g
WHB1000	1000 g

WEIGHT SET (Stainless)



Good quality weight set contains 9 weights (1 each of 1g, 5g, 10g, 50g and 100g sizes, and 2 each 2g and 20g sizes) plus a set of 1 to 500 mg fractional weights and a 5mg rider and forceps, in a wooden storage box. Weights are made of polished stainless steel and each weight is inscribed with its capacity.

Item No.	Description
AWSS09	Weight set, 1-100 grams, stainless steel

FRACTIONAL WEIGHT SET 1-500 MG

Includes 1 each of 1, 5, 10, 50, 100, and 500 mg weights, and 2 each of 2, 20, and 200 mg weights.



Item No.	Description
FWB500	Rectangular plastic box with rider and forceps
FWS500	Round plastic box with rider (not shown)
AWR005	Rider, 5mg, Pk/3

SLOTTED WEIGHT SETS

WHST08



WHST10



WHST12



WHST13

Item No.	Description	Specifications
WHST08	Deluxe Slotted Weight Set with Rack, 8 Weights, Brass	1x500g, 2x200g, 1x100g, 1x50g, 2x20g, 1x10g, rack
WHST10	Slotted Weight Set with Rack, 10 Weights, Brass	1x500g, 5x100g, 1x50g, 2x20g, 1x10g, rack
WHST12	Deluxe Slotted Weight Set with Rack, 12 Weights, Brass/Aluminum	1x500g, 2x200g, 1x100g, 1x50g, 20g, 1x10g, 1x5g, 2x2g, 1x1g, rack
WHST13	Slotted Weight Set with Hanger & Case, Brass	1x50g, 9x20g, 1x10g, 2x5g, hanger

WEIGHT HANGERS



Item No.	Description
WHNG50A	Weight Hanger, 50g, Aluminum
WHNG50B	Weight Hanger, 50g, Brass

For use with slotted weights. Available in aluminum or brass. Each weighs 50g. Stem length is 16 cm for aluminum hanger, 11.5 cm for brass hanger.



MEASUREMENT

BASIC HOOKED WEIGHT SET (Stainless)



Hooked weight set of 10 made of high quality stainless steel. Set of 10 includes: 1 of 200g, 2 of 100g, 3 of 50g, and 4 of 20g.

Item No.	Description	Specifications
WHSET10	Basic Hooked Weight Set of 10, Stainless	1 of 200g, 2 of 100g, 3 of 50g, 4 of 20g

HOOKED WEIGHT SET (Aluminum)

Set of 6 hooked aluminum masses with a plastic storage base.



Item No.	Description	Specifications
WSAL06	Hooked Weight Set, Aluminum	1 each of 100g, 50g, 40g, 30g, 20g, 10g

HEXAGONAL MASSES

Accurate, non-rolling hexagonal masses are made of steel, and feature a durable black oxidized finish. Available in both customary and metric sizes. **Suitable for ages 11+.**



Item No.	Description
HEXAGONAL MASSES, METRIC SIZES	
WHX001	1 g
WHX005	5 g
WHX010	10 g
WHX020	20 g
WHX050	50 g
WHX100	100 g
WHX200	200 g
WHX500	500 g
WHX1000	1000 g
HEXAGONAL MASSES, CUSTOMARY SIZES	
WHX1OZ	1 oz.
WHX4OZ	1/4 lb.
WHX8OZ	1/2 lb.
WHX1LB	1 lb.

Customizable Hexagonal Weight Sets are available on request. Call for details.

HOOKED WEIGHT SETS (Stainless)

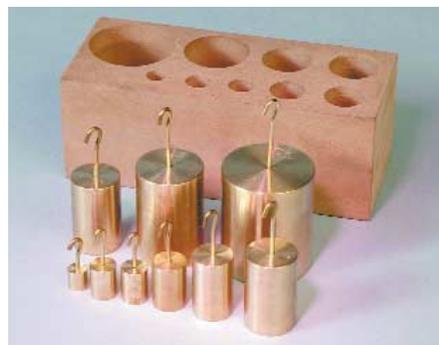


Individually calibrated weights made of high quality stainless steel. Both sets come with a sturdy plastic storage block. Set of 9 includes 1 each of 5g, 10g, 50g, 100g, and 500g, plus 2 each of 20g and 200g weights.

Set of 10 includes all of the above, plus 1 each 1000g weight.

Item No.	Description
WSST09	Weight Set of 9, 5g to 500g
WSST10	Weight Set of 10, 5g to 1000g

HOOKED WEIGHT SET (Brass)



These weights feature flat countersunk bottoms, with a double-ended hooked rod through the middle. They can be used on balance pans, as well as hooked in tandem for lever arm studies. Set of 9 weights consisting of 1 each 10g, 50g, 100g, 500g, 1,000g, and 2 each 20g, 200 gram weights. Weights are made of polished brass and come in a storage block. Replacement weights are available separately.

Item No.	Description
WHSET9	Weight Set, Hooked double-ended, Brass, Set of 9 Weights

HOOKED WEIGHT SET (Black Enamel)

Set of 9 weights consisting of 1 each 10g, 50g, 100g, 500g, 1000g, and 2 each 20g, and 200 gram weights. Weights are made of cast iron with a black enamel finish and come with a sturdy plastic storage box. Weights can be hooked in tandem.



Item No.	Description
WHSBE9	Weight Set, Hooked, black enamel finish, (set of 9 weights)

MEASUREMENT



PUSH PULL SCALES *NEW*



For measuring weights, masses, and forces. Available in 6 sizes.

Item No.	Description	Graduation	Color
PS0250	250g / 2.5N	5g / 0.05N	Blue
PS0500	500g / 5N	10g / 0.1N	Green
PS1000	1,000g / 10N	20g / 0.2N	Brown
PS2000	2,000g / 20N	40g / 0.4N	Red
PS3000	3,000g / 30N	50g / 0.5N	Cream
PS5000	5,000g / 50N	100g / 1N	Yellow

ALUMINUM SPRING SCALES *NEW*



Constructed of anodized aluminum, with steel hooks, this spring scale is extremely durable and designed for long-term use. Available in 7 sizes.

Item No.	Description	Graduation	Color
SB0100-A	100g / 1N	2g / 0.02N	Black
SB0250-A	250g / 2.5N	5g / 0.05N	Blue
SB0500-A	500g / 5N	10g / 0.1N	Green
SB1000-A	1,000g / 10N	20g / 0.2N	Brown
SB2000-A	2,000g / 20N	40g / 0.4N	Red
SB3000-A	3,000g / 30N	50g / 0.5N	Silver
SB5000-A	5,000g / 50N	100g / 1N	Gold

STUDENT PLATFORM SCALE

Sturdy economical scale for general use in the lab. It features a round plastic weighing platform. Capacity is 5 Kilograms, or 11 lbs. Shipping weight is 1.25 lbs; dimensions are 7" x 7" x 7".



Item No.	Description
KCZ-002	Student Platform Scale

SPRING SCALES

These Spring Scales come in a clear plastic case, and include a metal pointer, spring, suspension ring, and load hook. Scales are calibrated in Grams, Newtons, or both, with zero adjustment.

Other sizes are also available. Please call us for details.



Your Company's logo and/or name can be printed on the face of the scale at no additional charge if you order 1,000 or more.

Item No.	Description
SB0100	100 Grams X 2 Grams 1 Newton X 0.02 Newton
SB0250	250 Grams X 5 Grams 2.5 Newtons X 0.05 Newton
SB0500	500 Grams X 10 Grams 5 Newtons X 0.1 Newton
SB1000	1,000 Grams X 20 Grams 10 Newtons X 0.2 Newton
SB2000	2,000 Grams X 40 Grams 20 Newtons X 0.4 Newtons
SB5000	5000 Grams X 100 Grams 50 Newtons X 1.0 Newton

SPRING SCALES, CLEAR PLASTIC



These spring scales feature a clear plastic tube design, and are color-coded. A zero adjustment screw is provided at the top. Overall length is approximately 7".

Item No.	Description	Graduation	Color
SB0250-P	250g / 2.5N	5g / 0.05N	Blue
SB0500-P	500g / 5N	10g / 0.1N	Green
SB1000-P	1,000g / 10N	20g / 0.2N	Brown
SB2000-P	2,000g / 20N	40g / 0.4N	Red
SB3000-P	3,000g / 30N	50g / 0.5N	Cream
SB5000-P	5,000g / 50N	100g / 1N	Yellow



MEASUREMENT

DIAL THERMOMETER

This versatile thermometer features molded plastic dial (38mm diameter), with temperature ranges of -20°C to $+50^{\circ}\text{C}$, and 0° to 120°F . Can be mounted on any indoor/outdoor surface, with a nail or two-sided adhesive tape.



Item No.	Description
THMR01	Dial thermometer, -20°C to $+50^{\circ}\text{C}$, and 0°F to 120°F

STUDENT THERMOMETERS



These student grade partial immersion thermometers are etched in 1° increments. Each thermometer comes complete with an anti-roll triangle and is housed in a convenient re-usable plastic storage. Filled with a red-colored kerosene mixture. The thermometer has a white back and is $11\text{-}3/4"$ (30cm) long. **Additional sizes available. Call for details.**

Item No.	Temperature Range
THPC01	-20 to 110°C
THPCF1	-20 to $110^{\circ}\text{C}/0$ to 230°F
THNT25	No-roll triangles, pack of 25

CLASSROOM THERMOMETERS



Thermometer, Maximum/Minimum: graduated in Celsius and Fahrenheit, Readability $1^{\circ}\text{C} / 2^{\circ}\text{F}$. A disc magnet is included. Dimensions: $8.5" \times 2.5" \times 0.5"$

Thermometer, Wet & Dry Bulb: Graduated in Celsius -10° to $+50^{\circ}$ (1°C) and Fahrenheit -20° to $+120^{\circ}$ (2°F). Includes humidity table in C and F. Dimensions: $10" \times 3" \times 0.5"$.

Item No.	Description
THWP01	Wall Thermometer On $9"$ tall Plastic Base, -10° to $55^{\circ}\text{C} / +20^{\circ}$ to 130°F
THWW01	Wall Thermometer On $10"$ tall Wooden Base, -30° to $50^{\circ}\text{C} / +20^{\circ}$ to 120°F .
THMM01	Thermometer, Maximum/Minimum (See specs above)
THWD01	Thermometer Wet & Dry Bulb (See specs above)

METAL BACK STUDENT THERMOMETERS



Glass thermometer mounted on aluminum back. Thermometers are filled with approximately 3 grams of Toluene mixed with red color.

Add your logo on the thermometers at no additional charge for quantities over 1,000 each.

Item No.	Description
THMCF1	-20° to $230^{\circ}\text{F} / -30^{\circ}$ to 110°C
THMC02	-40° to 110°C
THVB02	0° to $230^{\circ}\text{F} / -20^{\circ}$ to 110°C

PROBE THERMOMETER

Thermometers feature $5"$ long stainless steel probes. Temperatures are shown on a dial display. Includes protective sleeve with pocket clip.



Item No.	Temperature Range	Divisions
THMPR1	25° to 125°F	1°F
THMPR2	-10° to 50°C	1°C
THMPR3	0° to 200°C	2°C
THMPR4	50° to 550°F	5°F

MEASUREMENT



PRECISION MEASURING SET



This measuring set contains four high quality instruments - a 0.25 x 0.01mm micrometer caliper, a 90° knife edge square, a 150 x 0.05mm vernier caliper, and a 150mm steel ruler. All of these are housed in a sturdy plastic storage case. Includes activity guide.

Item No.	Description
PMSET04	Precision Measuring Set

DIGITAL CALIPER

This advanced measuring tool is accurate to 0.001"/ 0.01mm and measures in both metric and English units. Range is 6"/150mm. It has a bright LCD display and easy access push buttons. A durable plastic storage case with instructions is included.



DELUXE MICROMETER

This micrometer is made of hardened steel for precision and durability. Its range is 0 - 25mm and it has a precision rotary scale with a resolution of 0.01 mm, a ratchet thimble and a locking lever. Instructions are included.

Shipping weight: 9.5 oz., dimensions: 6" x 4" x 1.5".

Item No.	Description
MCRDLX	Deluxe Micrometer

MICROMETER

Introductory level metric micrometer graduated to read up to 25mm in 0.01mm divisions. Comes in a plastic storage case.



Item No.	Description
MCR025	Micrometer

Item No.	Description
VCD001	Digital Caliper

DIAL VERNIER CALIPER



This precision measuring tool is made of hardened steel for precision and durability. It has a range of 150mm and a large, easy-to-read dial with a resolution of 0.02mm. A storage case and instructions are included.

Shipping weight: 6.5 oz., dimensions: 9" x 0.75" x 0.25".

Item No.	Description
VCDT06	Dial Vernier Caliper

VERNIER CALIPER, BRASS

Economical Brass Vernier Caliper with 140mm Capacity. Features inside and outside jaws, full length depth gauge, friction ruler and sliding lock for gauging. Graduated in millimeters and 1/16th of an inch.



Item No.	Description
VCB001	Vernier Caliper, Brass

VERNIER CALIPER, PLASTIC

All plastic construction. Dual scale range is 6" or 150mm. Readability is 1/128" or 0.05mm.



Item No.	Description
VCP001	Vernier caliper, plastic

DIGITAL STOPWATCH



Featured displays of this electronic alarm stopwatch include time (hours-minutes-seconds, with 12 or 24 hour mode option), calendar, 24-hour stopwatch, alarm, hourly chime, 1/100 second chronograph, split time, and total time. It is lightweight, easy to operate, and comes complete with battery and carrying cord.

Shipping weight: 1.5 oz., dimensions: 5.5" x 3" x 1".

Item No.	Description
STOPWD	Digital Stopwatch

MECHANICAL STOPWATCH



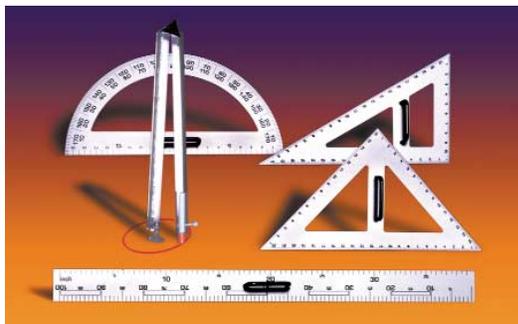
This is a top-quality, precision, single action, mechanical stopwatch. It features a stainless steel spring and 13-jewel movement. The dial face is marked 0-60 seconds x 0.2 seconds and the minutes dial reads to 30 minutes. The watch is housed in a felt-lined wooden storage case.

Item No.	Description
STPWMC	Mechanical Stopwatch



MEASUREMENT

CHALKBOARD DRAWING INSTRUMENTS



Durable, lightweight plastic instruments, designed for whiteboards and chalkboards. Triangles, protractor, and ruler are made of white polystyrene and feature handles for ease of use. Compass is made of clear acrylic, and accommodates most dry erase and magic markers.

Item No.	Description
CHTE45	Triangle, 45 degree, 23" base, 16" sides
CHTR60	Triangle, 60 degree, 22" base
CHPR01	Protractor, 180° marked with intervals of 1°, 20" base, 10" height
CHRL40	Meter Ruler, graduated in inches (1 - 39") and centimeters (1 - 100 cm), 7 cm wide.
CHCMP1	Compass, with locking screw, rubber suction cup, 18" long, accommodates most dry erase, and magic markers. Radius 15".
CHKSET	Set of above 5 instruments, in reusable cardboard storage box

WOODEN RULER



This 12" wooden ruler has a double bevel and a pencil groove. It is scaled in 1/16" increments on one bevel and mm on the opposite bevel. There is a metal edge on one side.

Item No.	Description
SCLW12	12"/30.5cm Wooden Ruler with Metal Edge

CLEAR PLASTIC RULER



This clear plastic 12" ruler is scaled in 1/16" increments on one side and mm on the other.

Item No.	Description
SCALE12	12"/30.5cm Clear Plastic Ruler

TAPE MEASURE



This 60" fiberglass tape measure features inches on one side, and centimeter and millimeter markings on the reverse.

Item No.	Description
TPM060	Tape Measure

MEASUREMENT KIT

Includes a variety of tools and objects for teaching basics of measurement. Kit is shipped in a reusable storage box. Includes activity guide with 15 activities.

Measurement Tools:
Depth Gauge
Micrometer
Protractor, plastic
Ruler, 12", plastic
Tape measure
Vernier Caliper, brass
Wire Gauge, with conversion table

Objects for Measurement:
Aluminum square
Aluminum wire
Graduated cylinder
Plastic cylinder
Plastic vial



Item No.	Description
MEAKIT	Measurement Kit



SEXTANT, BRASS

Designed for beginners as well as experienced navigators, this sextant features an adjustable index mirror, index, and horizon shades. Durable brass construction, and features like more expensive models make this a great value. Weighs only 0.75 lbs. Includes activity guide.



Item No.	Description
SXTNT1	Sextant, brass

3-METER TAPE MEASURE



This versatile tape measure is perfect for a wide variety of applications. The bright yellow steel tape retracts with a simple push of a button. It also features a high impact plastic case with a belt clip and loop handle. The tape is marked in both English and metric scales.

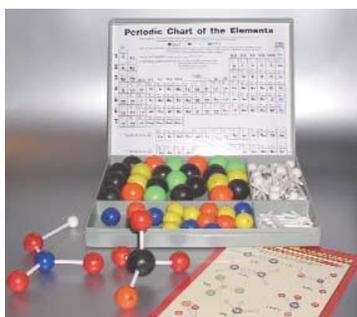
Item No.	Description
TPM03M	3-Meter Tape Measure



ATOMIC MODELS SETS



Atomic Models Set, Classroom



Atomic Models Set, Student

Sets can be used to model different organic and inorganic compounds. Classroom Set includes 150 connecting lugs and 370 colored balls, and a molded storage box with compartments. The Student Set includes 30 connecting lugs and 75 balls. Both sets include a Periodic Table of the Elements.

Item No.	Description
58001	Atomic Models Set, Classroom
58002	Atomic Models Set, Student

MOLECULAR MODEL SETS



Atomic Models Set, Teacher



Atomic Models Set, Student

An updated version of our popular atomic model sets that are suitable for constructing complex organic and inorganic molecules. The teacher set contains 100 atom centers and 86 bonds. The student set has 48 atom centers and 35 bonds. Both sets come in durable plastic storage boxes with a copy of the periodic table for easy reference.

Item No.	Description
58011	Molecular Model Set, Teacher
58012	Molecular Model Set, Student

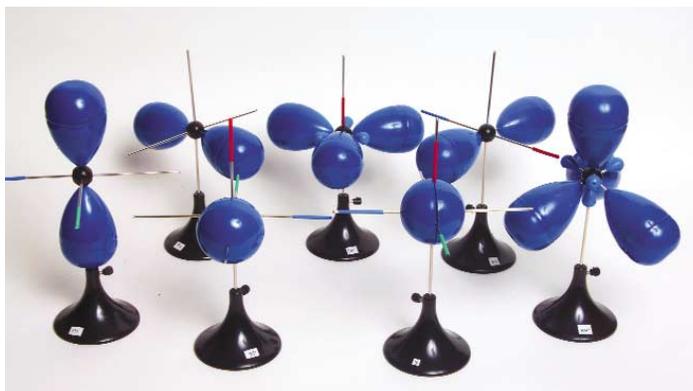
DIAMOND CRYSTAL MODEL



A ball-and-spoke structural model of the diamond crystal form of carbon, permanently mounted on a clear triangular acrylic base. It contains 30 balls, each 22 mm in diameter. Overall dimensions: height 20.5 cm, base side 25.5 cm.

Item No.	Description
CMSDMD	Diamond Crystal Model

SET OF SEVEN MOLECULAR ORBIT MODELS

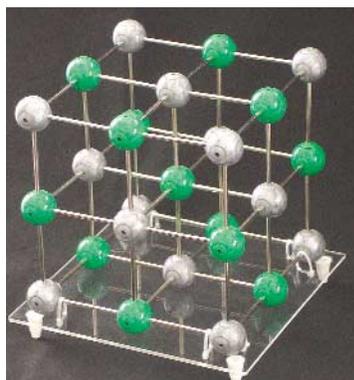


This set of seven models illustrates the most common atomic and hybridized molecular orbits. Each model is assembled on a vertical rod representing the z-axis and is mounted on a removable stand. Orbits represented include s, p_x , p_y (same model), p_z , sp^1 , sp^2 , and sp^3 . Height is 23 cm, base diameter is 10 cm, and lobes are 6-10 cm in diameter.

Shipping weight: 3.75 lbs., dimensions: 18" x 14" x 12".

Item No.	Description
MOMS07	Set of Seven Molecular Orbit Models

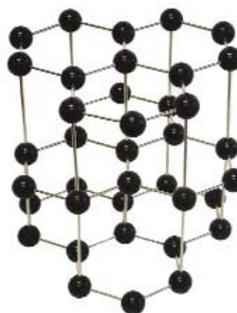
SODIUM CHLORIDE CRYSTAL MODEL



Ball-and-spoke structural model of the unit cell of a sodium chloride crystal, NaCl—table salt. Permanently mounted on a clear square acrylic base. Clearly shows the two interpenetrating face centered cubic lattices of sodium and chloride ions. The model contains 27 balls, each 22 mm in diameter. Dimensions: Cube side 14 cm, overall height 18 cm.

Item No.	Description
CMSSCL	Sodium Chloride Crystal Model

GRAPHITE CRYSTAL MODEL



A ball-and-spoke structural model of the graphite crystal form of carbon, permanently mounted on a clear hexagonal acrylic base. Clearly shows the layered structure. It contains 39 balls, each 22 mm in diameter. Overall dimensions: height 27 cm, base side 14.5 cm.

Item No.	Description
CMSGRP	Graphite Crystal Model



BASIC SIMPLE CELLS KIT



This kit allows students to explore the electrical properties of different combinations of electrode materials using safe, everyday chemicals such as soda, vinegar, and fruit juice as electrolytes. The set contains everything needed for the experiments except the electrolytes. Voltage, current, and polarization effects can be investigated. Contents of the set include a simple cell with electrode holders, electrodes of copper, aluminum, iron, and zinc, a mounted resistor for use as a current load, a multimeter, and a manual. Shipping weight: 2.0 lbs., dimensions: 11" x 9" x 5".

Item No.	Description
SCLKITE	Basic Simple Cells Kit

BROWNLEE ELECTROLYSIS APPARATUS



This is a simple and economical type of electrolysis apparatus. Platinum electrodes are attached to insulated connecting rods which are attached to binding posts mounted on a non-conducting support. The support rests across the top of a battery jar (not included) and has two clips that each hold an inverted test tube. Available in two versions, with or without a beaker. The unit operates on a user-supplied 6V battery or 10V DC power supply.

BEA001-B shipping weight: 1.5 lbs., dimensions: 7" x 6" x 4.5".
BEA001 shipping weight: 0.75 lb., dimensions: 6" x 6" x 2.5".

Item No.	Description
BEA001-B	Brownlee Electrolysis Apparatus with Beaker
BEA001	Brownlee Electrolysis Apparatus

HOFFMAN ELECTROLYSIS APPARATUS

The Hoffman Electrolysis Apparatus is used for the qualitative and quantitative study of the electrolytic decomposition of electrolytes such as water and hydrochloric acid. Tubes are 50mm each. Included platinum electrodes are also sold separately. Includes activity guide.

Shipping weight: 8 lbs., dimensions: 24" x 12" x 6".

- Contents:
- 1 Support Stand
 - 1 Burette Clamp
 - 1 Extension Clamp
 - 1 Bosshead Clamp
 - 1 Pair of Platinum Electrodes
 - 1 Pair of Carbon Electrodes
 - 1 Activity guide



Item No.	Description
HEA001	Hoffman Electrolysis Apparatus
HEA001-P	Replacement Platinum Electrodes, pair

MINI ELECTROLYSIS DEVICE NEW



This easy to set up, inexpensive device was designed by teachers in order to collect the correct proportions of hydrogen and oxygen from the electrolysis of water. Its unique design helps correct issues such as falling test tubes perched over unsteady electrodes and gases escaping due to poor alignment.

This product is great for general science teachers, chemistry classes or when teaching concepts such as Mixtures and Compounds, States of Matter, Oxidation Reduction Reactions, Law of Thermodynamics, and Alternative Energy.

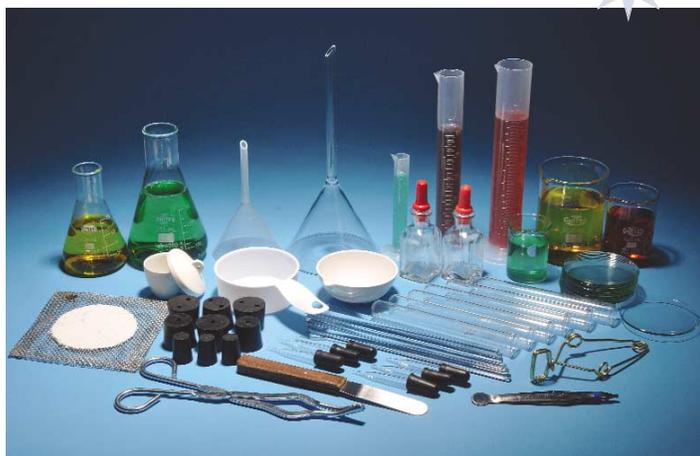
Each device consists of the electrolysis unit, gas collection tubes and a clear polycarbonate tub. The device will attach to any 6-12 Volt DC power supply (not included) using the alligator clips on the unit's power leads. Includes activity guide and an instructional CD.

Shipping weight: 1 lb., dimensions: 7" x 4.5" x 3.5".

Item No.	Description
ELWD01	Mini Electrolysis Device



CHEMISTRY LABWARE KIT *NEW*



A convenient assortment of items most commonly used in a general Chemistry Lab. Our kit offers a great value for the teacher, and includes the following:

Contents:	
Dropping Bottle, 30 ml, Barnes2	Funnel, Glass, long stem, 90mm dia.1
Dropping Pipettes, Plastic6	Funnel, Plastic, 75 mm dia.1
Beaker, Glass, 50 ml1	Test Tube Clamp, brass, with finger grips1
Beaker, Glass, 100 ml1	Wire Gauze, 5" x 5", with ceramic center1
Beaker, Glass, 250 ml1	Crucible, Porcelain, 25 ml with lid .1
Evaporating Dish, Porcelain, 70 mm dia.1	Watch Glass, 75 mm dia.1
Stirring Rods, Glass, 8"6	Plastic Scoop1
Erlenmeyer Flask, Glass, 125 ml . . .1	Spatula, stainless, 3" long blade with wooden handle1
Erlenmeyer Flask, Glass, 125 ml . . .1	Rubber Stoppers, solid3
Test Tubes, Glass, 18 x 150 mm . . .6	Rubber Stoppers, one-hole3
Cylinder, Plastic (PP), 10 ml1	Rubber Stoppers, two-hole3
Cylinder, Plastic (PP), 50 ml1	Total Pieces48
Cylinder, Plastic (PP), 100 ml1	
Forceps, stainless, 5" long1	
Crucible tongs, steel, 9" long1	

Item No.	Description
HRDKIT3	Chemistry Labware Kit

VACUUM PUMP



Material: Polypropylene
Ideal for cleaning up spilled chemicals, as well as for filter work. This pump will achieve vacuum down to 28.5 Hg. Built-in non return valve eliminates any back flow. Easily disassembled for cleaning. Autoclavable.

Item No.	Description	Quantity per pack
KT1395	Water Jet vacuum pump	1
KT1396	Replacement tube connectors, pack of 5	1

CHEMISTRY HARDWARE ASSORTMENT



An assortment of hardware most often used in general chemistry labs.

Contents:	
Beaker Tong1	Crucible Tong1
Burette Clamp1	Ring Support with Clamp, 4"1
Burner Tripod1	Ring Stand (5" x 8" base)1
Clamp, Pinchcock1	Test Tube Rack, holds 6 tubes1
Clamp Holder, Right Angle1	Test Tube Tong1
Clay Pipe Triangle1	Wire Gauze, 5x5"1
	Total Pieces12

Item No.	Description
HRDKIT2-C	Chemistry Hardware Assortment

ORGANIC CHEMISTRY SETS *NEW*



ORGKIT-09

Organic Chemistry Glassware sets are available in a standard set of 9 and a deluxe set of 16 pieces. The Standard Set is designed to cover essential requirements for organic chemistry and is suitable for preparations up to 30g. All glassware is jointed (joint sizes available upon request) The Deluxe Set is suitable for preparations up to 150g. Both sets come in a sturdy, form fitting case.

Standard Set of 9 Contents:	
Pear-Shaped Flask (50ml)1	Air Leak / Steam Inlet Tube1
Still Head1	Dropping Funnel (50 ml with Rotoflo Tap)1
Liebig Condenser1	Stopper1
Screw Cap Adapter1	Thermometer1
Receiver Adapter1	

Deluxe Set of 16 Contents:	
Still Head1	Round Bottom Flask (50ml)1
Receiver1	Round Bottom Flask (100ml)1
Air Leak / Steam Inlet Tube1	Round Bottom Flask (250ml)1
Liebig Condenser1	Erlenmeyer Flask (250ml)1
Dropping Funnel (100ml)1	Stopper3
Reducing Adapter1	Thermometer Pocket1
Multiple Adapter1	Receiver Adapter1

Item No.	Description
ORGKIT-09	Standard Organic Chemistry Glassware Kit, 9 piece
ORGKIT-16	Deluxe Organic Chemistry Glassware Kit, 16 piece



DISTILLATION APPARATUS *NEW*

Includes Activity Guide



Complete distillation apparatus.

Includes:

- 500ml Filtering Flask
- 500ml Round Bottom Borosilicate Flask with Side Tube
- 300mm Graham Condenser
- 250ml Erlenmeyer Flask
- Glass Stopper
- Support Stand (6"X9") with 24" Rod
- Swivel Burette Clamp
- Extension Clamp
- Clamp Holder
- Activity Guide

Item No.	Description
DSA001	Distillation Apparatus

pH PAPER, WIDE RANGE

Each vial contains 100 strips, 2" x 1/4"; pH 1-14.

We will custom package all test papers per your specifications. Please call for details.



Item No.	Description
PHP100	pH Paper, Wide Range, vial/100 strips
PHPR01	pH Paper, Wide Range, Roll

FILTERING KIT *NEW*

Includes Activity Guide



FLTKIT



HVP001

An excellent, faster working, alternative to traditional gravity based liquid filtration. The included Hand Vacuum Pump is also available separately. Includes activity guide.

Contents:

- 500ml Filtering Flask
- 90-mm porcelain Buchner Funnel
- Hand Vacuum Pump with Gauge
- Pack of 90mm Filter Papers (pk/100)
- Rubber Stopper
- Vacuum Hose

Item No.	Description
FLTKIT	Filtering Kit
HVP001	Hand Vacuum Pump only

LITMUS PAPER

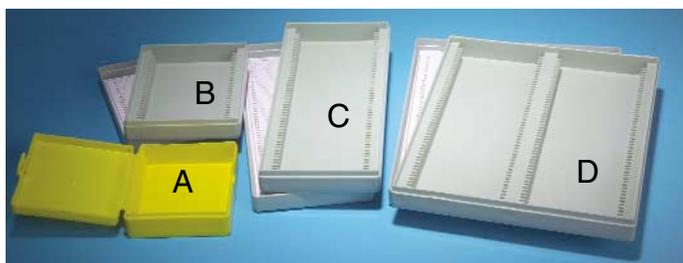
100 strips each in matching color plastic vials. Individual strips are approximately 2" long and 1/4" wide. Also available as Litmus Granular in bottles.



Item No.	Description
LITMUS PAPER	
LPR100	Red Litmus Paper, Vial/100 Strips
LPB100	Blue Litmus Paper, Vial/100 Strips
LPN100	Neutral Litmus Paper, Vial/100 Strips
LITMUS GRANULAR	
LGB025	25 g Bottle
LGB050	50 g Bottle
LGB100	100 g Bottle



SLIDE STORAGE BOXES, PLASTIC



Sturdy two-piece molded plastic slide boxes. The bottom section has slide numbers engraved for easy reference, and the inside of the lid carries a numbered slide index. Slide box of 10 (SBP010) features a hinged design.

Item No.	Picture	Description
SBP010	A	Slide Box, holds 10 slides
SBP025	B	Slide Box, holds 25 slides
SBP050	C	Slide Box, holds 50 slides
SBP100	D	Slide Box, holds 100 slides

SLIDE STORAGE BOXES, WOODEN



WSB100 Wooden Slide Box

Strong wooden frame, with hinged cover. Slides fit into numbered beveled slots. Printed index lines the cover.

Item No.	Description
WSB025	Wooden Slide Box, 25 Slide Capacity
WSB050	Wooden Slide Box, 50 Slide Capacity
WSB100	Wooden Slide Box, 100 Slide Capacity

CAVITY SLIDES - THICK

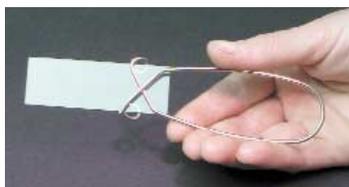
These slides are made of 3mm thick clear glass sheet. Size 3" x 1". Available with single, double, or triple concavities in packages of 12.



Item No.	Description
CSTK01	Thick Cavity Slides, 1 Concavity, pk/12
CSTK02	Thick Cavity Slides, 2 Concavities, pk/12
CSTK03	Thick Cavity Slides, 3 Concavities, pk/12

SLIDE HOLDING FORCEPS

Made of plated steel wire for handling cover glasses and slides, carefully and tightly.



Item No.	Description
SFK001	Slide Holding Forceps

MICROSCOPE SLIDES, PLAIN

Made of quality sheet glass, with ground edges. Each slide is pre-cleaned, and packaged in boxes of 72 each. Each slide is 1.0 to 1.2mm thick.



All microscope slides and coverslips can be packaged per your specifications. Please call for details.

Item No.	Description
MSL3X1	Plain Slides, 3" X 1", pack/72
MSL3X1RC	Plain Slides, 3" x 1", rounded corners, pack/72

PLASTIC SLIDES



These 3" x 1" microscope slides are made from optically clear plastic. They will not break or scratch. Box of 144.

Item No.	Description
PSL3X1	Plastic Slides, box/144

CONCAVITY SLIDES



Made of good quality glass sheet 1.2mm thick, with ground edges, and spherical concavities. Available with single, double, or triple concavities, in packages of 12.

Item No.	Description
CS3X11	3" X 1" Slides, 1 concavity, pk/12
CS3X12	3" X 1" Slides, 2 concavities, pk/12
CS3X13	3" x 1" Slides, 3 concavities, pk/12

FROSTED SLIDES

Microscope clear slides, glass, 3"x1", 1.3mm thick, one end frosted to make it easy to mark and read.



Item No.	Description
MSLF01	Frosted Slides, pk/72



MICROSCOPE SLIDE-MAKING SETS

A great biology resource! Prepare your own slide specimens with these Microscope Slide Making Kits. The reusable slides can be used time and time again, providing excellent value. Each kit includes 12 slides, 12 cover slips, and a storage box holding up to 25 slides. Available as either a glass or plastic slide-making set.



Item No.	Description
MSSG12	Microscope Slide Set, Glass
MSSP12	Microscope Slide Set, Plastic

STUDENT QUALITY GLASS COVERSLIPS



Made of quality, non-corrosive glass. The 22 x 22mm sized coverslips are available in thickness #1 or #2.

Additional sizes available. Please call for details.

Item No.	Description
SCSS18-1oz	#1 Glass Coverslips, 18mm X 18mm, 1 oz
SCSS22-1oz	#1 Glass Coverslips, 22mm X 22mm 1 oz
SCSP02	#2 Glass Coverslips, 22mm X 22mm 1 oz

PLASTIC COVER SLIPS



These clear plastic cover slips are unbreakable, flexible, and non-curling. 0.25mm thick. Packs of 100.

Item No.	Description
PCSS18	Plastic Cover Slips, 18 x 18 mm, Pk/100
PCSS22	Plastic Cover Slips, 22 x 22 mm, Pk/100

COPLIN STAINING JAR

Coplin Staining Jar is made of polypropylene and can hold 10 slides (1" x 3") back to back. The interior is grooved in a way to hold the slides in an erect position. Jar features domed and shallow thread screw cap.



Item No.	Description	Quantity per pack
62101	Coplin Staining Jar	12

30X POCKET ILLUMINATED MICROSCOPE

This easy to focus 30X pocket microscope is excellent for classroom investigation as well as outdoor use. Includes a protective case. Requires two "AA" batteries (not included).



Item No.	Description
MCR30X	30X Pocket Illuminated Microscope

STUDENT MICROSCOPE KIT

This microscope can be used four ways: by itself, with the viewer screen for small-group work, with the projection device to create a larger image, or with the drawing head to view and trace a projected image on paper. It has three ranges, 300x-600x-1200x, comes with prepared slides, slide making materials, forceps, tweezers, scalpel, specimen pin with handle, 30 mL beaker, Petri dish, magnifying glass, dropper, specimen vial, two eyepieces, extra bulb, and English-Spanish activity guide. Requires two "AA" batteries, not included.



Item No.	Description
MCR4W	Student Four-Way Microscope Kit

STUDENT MICROSCOPE

Features DIN 45mm achromatic objectives, parfocal; fully coated optical system. Electrical parts are CE approved. Shipping weight is 6 lbs.

Specifications:

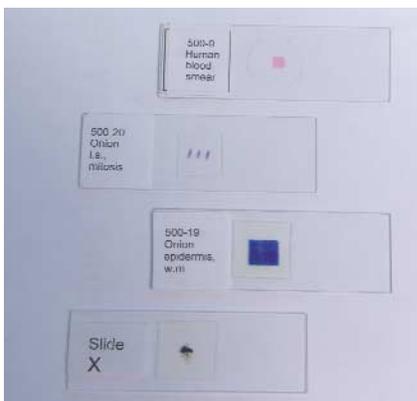
- Viewing Head: Monocular head inclined at 45°. Rotatable 360°.
- Eyepiece: WF 10x Objective: 4x, 10x, 40x (S)
- Stage: Plain stage with sideclips, 110mm x 105mm
- Condenser: Single lens with disc diaphragm
- Focusing: Rack and pinion coarse and fine adjustment
- Power: 110V/20W incandescent lamp



Item No.	Description
MCR118L	Student Microscope



PREPARED MICROSCOPE SLIDES



Our Prepared Slides show top quality specimens in Zoology, Botany, General Biology, Histology, Parasitology, Embryology, Fungi, Monera, and Protista. Single Slides and Sets available. Below is a list of prepared slides we currently stock. Our most popular slides are shown in bold type.

Additional slides can be prepared per your specifications. Please call for details.

Item No.	Description
500-1	Amoeba Proteus
500-13	Aspergillus
100-06	Bacteria, 3 types
500-10	Bacteria, smear from mouth
100-10	Basswood Stem, cs
100-15	Bread Mold
100-14	Bread Mold, sexual
100-16	Budding Yeast
500-15	Buttercup Root
100-20	Butterfly Wing
100-137	Cardiac Muscle
500-22	Compact Bone, cs
100-02	Cork Section
500-16	Corn Stem, cs
100-26	Daphnia (Water Flea), wm
500-4	Daphnia & Cyclops (Marine Biology), wm
500-3	Earthworm, cs of posterior
100-30	Euglena
100-31	Feathers, 3 types
100-33	Fern Spores Germinating
100-04	Frog Blood Smear
100-67	Frog Liver sec. (can be used as animal cells slide)
100-171	Fruit Fly, wm, (Slide X)
100-110	Grantia Spicules, wm
100-170A	Graph, black gridlines, (Slide A)
100-87	Green Algae
100-36	Hair, 3 types
500-25	Honeybee anterior/posterior wing
100-174	Housefly, wm
100-39	Housefly head/legs/wings
500-5	Housefly head with mouthparts, wm
500-6	Housefly leg w/clinging pads
500-9	Human Blood Smear, Wright's Stain
100-13	Human Bone Ground,cs

Item No.	Description
500-7	Human Cheek Cells
500-21	Human Scalp, vs
100-105	Human Sperm Smear
500-2	Hydra, wm
100-40	Hyda, budding, wm
100-79	Involuntary Smooth Muscle, ls & cs
100-01	Letter 'e'
100-41	Lichen, sec.
500-24	Lilac Leaf
500-17	Lily Anthers, cs
500-18	Lily Ovary, cs
100-44	Lily Stem, cs
500-11	Mixed Diatoms, wm
100-45	Mixed Protozoa
100-46	Molds, 3 types (Apergillus, Penicillium, Rhizopus)
100-75	Monocot and Dicot Stem
500-14	Moss stem w/leaves,wm
100-66	Multi-polar Motor Neurons
100-47	Muscle, 3 types
100-48	Mushroom, cs
100-49	Oleander Leaf, cs
500-19	Onion Bulb Epidermis,wm (can be used as plant cells slide)
100-86	Onion Leaf Epidermis
500-20	Onion Root Tip Mitosis
100-50	Onion Skin, cs
100-08	Paramecium, wm
100-51	Planaria
100-59	Spider, wm
500-12	Spirogyra
100-73	Squamous Mesothelium, wm, mammal
500-8	Striated Muscle, ls
500-23	Sunflower Stem, cs
100-63	Textile Fibers, 3 types
100-64	Volvox, wm



PREPARED SLIDE SET OF 25



SLD500-SET/25

Prepared Slide Set, 25 slides (shown above), contains:

- | | |
|---|---|
| <i>Amoeba proteus</i> , wm | <i>Moss stem with leaves</i> , wm |
| <i>Hydra</i> , wm | <i>Buttercup root</i> , cs |
| <i>Earthworm</i> , cs of posterior | <i>Corn stem</i> , cs |
| <i>Daphnia and cyclops</i> , wm | <i>Lily anthers</i> , cs |
| <i>Housefly head with mouthparts</i> , wm | <i>Lily ovary</i> , cs |
| <i>Housefly leg with clinging pads</i> | <i>Onion epidermis</i> , wm |
| <i>Mouth smear, squamous epithelium</i> | <i>Onion root tip, ls, mitosis</i> |
| <i>Striated muscle</i> , ls | <i>Human scalp, vertical sections</i> |
| <i>Human blood smear</i> | <i>Compact bone</i> , cs |
| <i>Bacteria, smear from mouth</i> | <i>Sunflower stem</i> , cs |
| <i>Diatoms, mixed</i> , wm | <i>Lilac leaf</i> , cs |
| <i>Spirogyra, vegetative filaments</i> , wm | <i>Honeybee anterior and posterior wing</i> |
| <i>Aspergillus</i> , wm | |

Item No.	Description
SLD500-SET/25	Prepared Slide Set, 25 Slides

BASIC PREPARED SLIDE SET OF 25

Prepared Slide Set, 25 slides (not shown. Supplied in a wooden case similar to SLD500-SET/25), contains:

- | | |
|-------------------------------|------------------------------------|
| <i>Mitosis in Plants</i> , cs | <i>Mammal Hair</i> , wm |
| <i>Pollen Grains</i> , wm | <i>Mosquito Mouth Parts</i> , wm |
| <i>Amoeba</i> , wm | <i>Housefly Mouth Parts</i> , wm |
| <i>Yeast Cells</i> , wm | <i>Frog Blood Smear</i> |
| <i>Green Algae</i> , wm | <i>Human Blood Smear</i> |
| <i>Letter "e"</i> | <i>Onion Cells</i> , wm |
| <i>Tape Worm</i> , ts | <i>Hibiscus Stem</i> , ts |
| <i>Silk Fabric</i> , wm | <i>Wool Fabric</i> , wm |
| <i>Lily Leaf</i> , vs | <i>Fish Scale</i> , wm |
| <i>Mammal Lung</i> , ts | <i>Skeletal Muscle</i> , wm |
| <i>Meiosis in Animals</i> | <i>Herbaceous Stem, young</i> , ts |
| <i>Aves Feather</i> , wm | <i>Skin Cells</i> , vs |
| <i>Lily Stamen</i> , ts | |

Item No.	Description
SLD025-SET/25	Basic Prepared Slide Set, 25 Slides

PREPARED SLIDE SET OF 4 NEW

Prepared Slide Set, 4 slides (not shown. Supplied in a plastic mailer), contains:

- | | |
|----------------------------|---------------------|
| <i>Sunflower Stem</i> , cs | <i>Wheat</i> , cs |
| <i>Corn Stem</i> , cs | <i>Pumpkin</i> , cs |

Item No.	Description
SLDSET4	Prepared Slide Set, 4 Slides

PREPARED SLIDE SET OF 100



SLD100-N

A very comprehensive selection of prepared microscope slides featuring 24 different subject areas. The set includes slides depicting Protozoa, Porifera, Coelenterata, Platyhelminthes, Annelida, Anthropoda, Molluska, Echinodermata, Pisces, Reptila, Aves, Mammalia, Development, Bacteria, Fungi, Algae, Pflridophyta, Cells, Leaves, Stem, Root, Reproductive organs, Cell contents, and Vascular systems. Recommended for elementary through high schools. Shipping weight: 2.50 lbs., dimensions: 9" x 8" x 2". Complete list of slides included available upon request.

Item No.	Description
SLD100-N	Prepared Slide Set, 100 Slides

BIOLOGY PREPARED SLIDE SET OF 12

Prepared Slide Set, 12 slides (not shown. Supplied in a plastic case), contains:

- | | |
|------------------------------------|---|
| <i>Bacteria, smear from mouth</i> | <i>Spirogyra, vegetative filaments</i> , wm |
| <i>Onion root tip, ls, mitosis</i> | <i>Hydra</i> , wm |
| <i>Amoeba proteus</i> , wm | <i>Bread Molds, Sexual</i> , wm |
| <i>Monocot/Dicot Stem</i> , cs | <i>Earthworm, cs of posterior</i> |
| <i>Paramecium</i> , wm | <i>Buttercup root</i> , cs |
| <i>Lilac leaf</i> , cs | <i>Human blood smear</i> |

Item No.	Description
SLD200-SET/12	Biology Prepared Slide Set, 12 Slides

PREPARED SLIDE SET OF 13 NEW

Prepared Slide Set, 13 slides (not shown. Supplied in a wooden case similar to SLD500-SET/25), contains:

- | | |
|---|--|
| <i>Involuntary Smooth Muscle (Domesticated Cat)</i> | <i>Amoeba</i> |
| <i>Lily Anthers</i> , cs | <i>Paramecium</i> |
| <i>Lilac Leaf</i> , cs | <i>Euglena</i> |
| <i>Monocot/Dicot Stem</i> | <i>Onion Root Tip Mitosis</i> |
| <i>Multi Polar Neurons (Domesticated Pig)</i> | <i>Horse Ascaris Egg, Sec (Domesticated Horse)</i> |
| <i>Letter "e"</i> | <i>Skeletal Muscle cs, ls (Domesticated Dog)</i> |
| <i>Hydra, Budding</i> wm | |

Item No.	Description
SLD013	Prepared Slide Set, 13 Slides



DISSECTING INSTRUMENT SETS



NEW

DSST01

DSET14



Good quality stainless steel dissecting instruments. Sets can be custom assembled per your specification.

Item No.	Description
DSET07	Economy, 7 instruments in a folding vinyl pouch
DSET08	Economy, 8 instruments in a folding vinyl pouch
DSET10	Instructor's, 10 instruments in a large trifold vinyl pouch
DSET14	Deluxe, 14 instruments in a zippered vinyl case
DSST01	Deluxe instrument set of 14 (DSET14), with Dissecting Tray (DPS001)

INDIVIDUAL DISSECTING INSTRUMENTS

Description	Item No.
Bone Cutting Forceps 5"	BNCT05
Bone Cutting Forceps 7"	BNCT07
Forceps blunt 5"	FOBL05
Forceps blunt 5" angular	FOBL05
Forceps economy blunt 4.5"	FOBL45
Forceps Sharp 5"	FOMF05
Forceps dissecting 4"	FOPN04
Scalpel Handle No. 3	SLHND3
Scalpel Handle No. 4	SLHND4
Blade #10, pk/10	BLADE10-PK/10
Blade #12, pk/10	BLADE12-PK/10
Blade #20, pk/10	BLADE20-PK/10
Blade #21, pk/10	BLADE21-PK/10
Blade #22, pk/10	BLADE22-PK/10
Blade #23, pk/10	BLADE23-PK/10
Scalpel with fixed blade	SCLPL1
Scissors closed shank 4.25"	SCI425
Scissors open shank 4.25"	SOS425
Scissors Blunt/Sharp 6.0"	SCBS06
Teasing Needle, Blunt, Straight	NSB001
Teasing Needle, Blunt, Angular	NAB001
Teasing Needle, Sharp, Straight	NSS001
Teasing Needle, Sharp, Angular	NAS001
Teasing Needle Arrow	NEDARW

TEASING NEEDLES



Durable, plastic handles. The pin points allow accurate work. Stainless steel needles eliminate rust and other corrosion. Packs of 12.

Item No.	Description
NEDPL1-PK/12	Straight Teasing Needles, Pk/12
NEDPB1-PK/12	Bent Teasing Needles, Pk/12

DISSECTING TRAY

Standard size dissecting tray, made of durable stainless steel, comes layered with white wax.



Item No.	Description
DPS001	Dissecting Tray, 11.5" x 7 .5" x 2"
DPS002	Dissecting Tray, 12" x 10" x 2"
DPS003	Dissecting Tray, 12.75" x 9.25" x 2"
DPS004	Dissecting Tray, 16" x 12.75" x 2"

INSECT PINS



These steel pins are coated with a black corrosion-resistant finish and have a yellow epoxy head. Pk/100.

Item No.	Description
IPIN00-PK100	Insect Pins, #00, Pk/100
IPINS0-PK100	Insect Pins, #0, Pk/100
IPIN01-PK100	Insect Pins, #1, Pk/100
IPIN02-PK100	Insect Pins, #2, Pk/100
IPIN03-PK100	Insect Pins, #3, Pk/100
IPIN04-PK100	Insect Pins, #4, Pk/100
IPIN05-PK100	Insect Pins, #5, Pk/100

NICKEL-PLATED T PINS



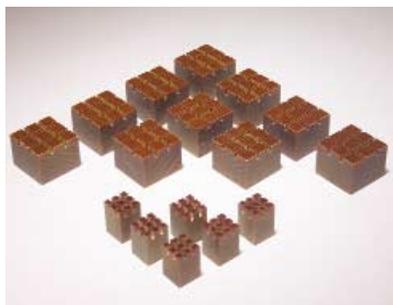
These nickel plated pins feature a "T" head which allows for a firm grip, making them easier to insert and extract.

Approximate weight per package: 2 oz.

Item No.	Description
TPIN02-PK/100	T Pin, 2", Pk/100



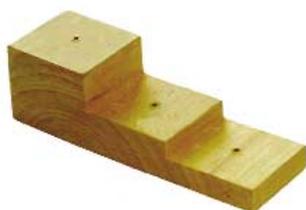
EMBEDDING BLOCKS



Used for celloidin or paraffin sections, these embedding blocks are made of phenolic resin, which can be marked with a glass marking pencil. Top surface has 1/32" deep grid to provide a firm hold for embedded specimen. Blocks are 3/4" high.

Item No.	Description
EB0001	Embedding blocks, 1/2" x 1/2", pack of 10
EB0002	Embedding blocks, 5/8" x 5/8", pack of 10
EB0003	Embedding blocks, 3/4" x 3/4", pack of 10
EB0004	Embedding blocks, 1" x 1", pack of 10

PINNING BLOCK



This wooden pinning block has three steps. Excellent for mounting insects.

Item No.	Description
IPB003	Pinning Block

INOCULATING LOOP



Our inoculating loop features a 8" long solid brass insulated handle, with a non-calibrated 26 gauge nickel-chromium wire loop approximately 5mm in diameter. Now available as a set of 4, with color-coded handles for easy identification.

Item No.	Description
INL703	Inoculating Loop
INL703-PK/4	Inoculating Loop, set of 4

INOCULATING LOOPS, PLASTIC



Disposable economical plastic loops for use when flame sterilization is not needed. Sterilized and packed in plastic sleeves of 30.

Item No.	Description
K1020	10ul blue, pack of 30
K1021	1ul white, pack of 30

GEL STAINING TRAY

This Polypropylene Staining Tray helps in staining, fixing, de-staining and handling fragile electrophoresis gels and membranes. Tray as well as cover will resist temperatures from -70°C to +70°C. The LDPE plug provides a leak-proof seal and allows easy liquid drainage.



Shipping weight: 0.3 lb., dimensions: 5" x 5" x 2".

Item No.	Description
79301	Gel Staining Tray

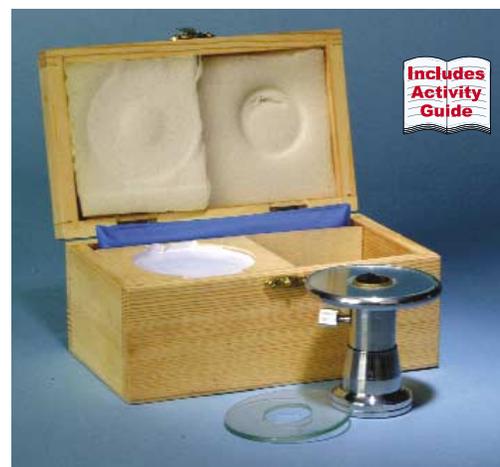
HAND TALLY COUNTER

Bright plastic case makes this hand tally counter lightweight yet sturdy. The counter advances by 1, up to 9999 each time the button is pressed. Turn the side knob to return the reading to zero. Use for counting bacterial colonies, vibrations of a pendulum, etc.



Item No.	Description
HTCP01	Hand Tally Counter

HAND MICROTOME

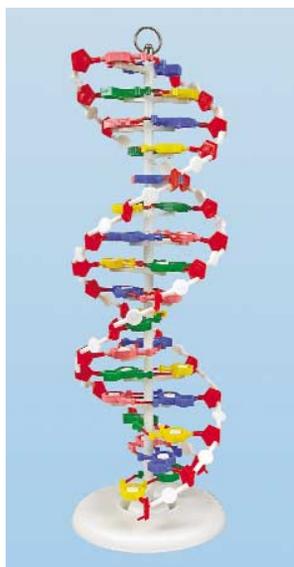


Easy to use, this microtome lets you cut sections to 10 microns. Equipped with a clamping mechanism for securing various shapes and sizes of objects. Supplied in a wood storage box, with 2 glass overlays for the stage, and a tempered steel razor knife. Includes instructions for use.

Item No.	Description
MCT001	Hand Microtome



DNA MODEL



This pre-assembled DNA model is built to a scale of 10cm to 1nm and accurately depicts a 16 base pair section of DNA. The phosphate-deoxyribose backbone and the four bases are represented by custom plastic moldings that show the shapes of the molecules in scale and illustrate the bonding between them. The handedness of the backbone chains and the relative sizes of the major and minor grooves in the relaxed molecule are correctly portrayed. The model is supported by a central pillar which can rotate on a circular stand. Shipping weight: 2.5 lbs., dimensions: 25" x 9" x 9".

Item No.	Description
DNAM01	DNA Model

DNA MODEL KIT NEW



Our popular DNA Model is now available as a kit. Kit includes 1 pre-assembled DNA Model, 3 unassembled models, and 1 instructional CD. The CD explains key concepts related to DNA structure and includes step-by-step instructions for assembly of the DNA Models. The model is built to a scale of 10cm to 1nm and accurately depicts a 16 base pair section of DNA. The model is supported by a central pillar which can rotate on a circular stand. Each model can be used by a group of 5 students. Kit contains no consumable parts and is designed for repeated use. Developed by teachers.

The full lesson can be completed in one class period and is hands-on for all students. If you already own one of these models, we offer additional unassembled models and instructional CDs. Contact us for details.

Item No.	Description
DNAM01-K4	DNA Model Kit with 4 models and CD
DNAM02-CD	CD Only for DNA Model
DNAM03-U	DNA Model (one model, unassembled)

BLOOD PRESSURE MONITORING KIT



Perfect for students, our Blood Pressure Monitoring Kit includes everything needed to measure blood pressure and pulse. The kit includes a teaching stethoscope and an aneroid sphygmomanometer. It comes with a vinyl storage case. Shipping weight: 1 lb., dimensions: 7" x 4" x 2".

Item No.	Description
SPHYSET	Blood Pressure Monitoring Kit

SPHYGMOMANOMETER



This student Blood Pressure Set has a self-adjusting cuff with gauge holder. Comes with a vinyl storage pouch.

Item No.	Description
SPHY01	Sphygmomanometer

STETHOSCOPES



Our stethoscopes have adjustable, chrome plated binaurals, and PVC Y-tubing. Good quality, and economical.

Item No.	Description
STHB01	Bowles Type Stethoscope
STHF01	Ford Type Stethoscope
STTCH01	Dual Earpiece - Teaching Stethoscope



MONOCOTYLEDON STEM MODEL



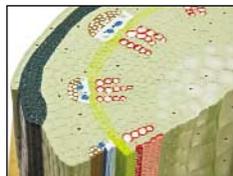
Detailed view of MBMS01

This model is patterned on a corn stem to show the general anatomy of a monocot in both longitudinal and cross sections. Features such as the cuticle layer, epidermis, closed vascular bundles, parenchyma cells, and others are clearly shown. This injection molded model is more durable than the more common fiberglass construction. Detailed Key included.

Shipping weight: 9 lbs., dimensions: 17.5" x 17.5" x 6.5".

Item No.	Description
MBMS01	Monocotyledon Stem Model

DICOTYLEDON STEM MODEL



Detailed view of MBDS01

This model is patterned on the sunflower stem and shows the epidermis, cork layer, phloem region, cambium, xylem region, pith, and other vital structures. The anatomy is displayed in cross, radial, and tangential sections. This injection molded model is more durable than the more common fiberglass construction. It comes with detailed key.

Shipping weight: 7.6 lbs., dimensions: 16" x 12.5" x 7.5".

Item No.	Description
MBDS01	Dicotyledon Stem Model

PLANT CELL MODEL



This model displays the three essential parts of a plant cell: the cell wall, cytoplasm, and the nucleus. The model also shows the nature and position of the vacuole and nucleus. A detailed key is included.

Shipping weight: 3.6 lbs., dimensions: 17" x 12" x 4".

Item No.	Description
MBPC01	Plant Cell Model

LEAF STRUCTURE MODEL



This model is patterned on a lima bean leaf. It is enlarged 45 times and shows details of the transverse and longitudinal sections. The mesophyll includes palisade parenchyma and spongy parenchyma. Both surfaces are shown with stomas and guard cells. There is additional detail of the xylem, phloem, and vascular veins. Constructed of durable plastic, it comes with a detailed key.

Shipping weight: 5 lbs., dimensions: 18" x 10" x 7".

Item No.	Description
MBLS01	Leaf Structure Model



LIFE SIZE HUMAN SKELETON MODEL



Spinal nerve exits and vertebral arteries



Spinal nerve exits and herniated disc

This life size human skeleton model features unbreakable plastic bones which were carefully cast to preserve the finest details. The mandible is hinged; the arms, legs and skull are removable; and the calvarium is sectioned to allow for study of the cranial vault. There is natural movement in the joints wherever possible. The jaw features a full set of teeth, three of which are removable for closer examination. The spinal column shows the spinal cord, nerve exits, vertebral arteries and a herniated disc. The skeleton is mounted in an upright position on a heavy duty base with smooth gliding casters. A dust cover and detailed key are included. Height: 170cm (5ft.7in.)

Shipping weight: 33.5 lbs., dimensions: 40" x 19" x 11".

Item No.	Description
HLSO1	Human Skeleton Model, life-sized

HUMAN SKELETON MODEL, 85CM



This is an excellent half-size model for demonstrating the basic anatomical features of the human skeleton. The carpals and tarsals are fused, but the rest of the skeleton has natural movement in the joints. The heavy metal base adds an extra measure of stability while the skeleton itself is constructed of rugged plastic. Features include unbreakable ribs, stainless steel screws, brackets and springs to resist corrosion. Detailed Key included. Height: 85cm (33.5 in.)

Also available in 42cm (16.5") with same construction, features and Detailed Key.

Shipping weight (HSKL85): 6 lbs., dimensions: 20" x 10" x 7".

Shipping weight (HSKL42): 4 lbs., dimensions: 12" x 8" x 5".

Item No.	Description
HSKL85	Human Skeleton Model, 85cm
HSKL42	Human Skeleton Model, 42cm

SKIN MODEL



This cross-sectional view of the human skin, enlarged 105 times, gives students a close-up and 3 dimensional view. It shows three layers and a detailed view of the sweat gland, fatty tissue and hair follicle. A color key is included.

Shipping weight: 5.5 lbs., dimensions: 11" x 12" x 4".

Item No.	Description
MAHSO1	Skin Model



ORAL HYGIENE MODEL



This is an excellent model for demonstrating the proper technique for brushing teeth and gums. Hinged upper and lower palates simulate the normal opening and closing of the mouth. It comes complete with an oversized soft bristle toothbrush (9" long) and a detailed key.
Shipping weight: 2 lbs., dimensions: 8" x 7" x 5".

Item No.	Description
MAOH01	Oral Hygiene Model

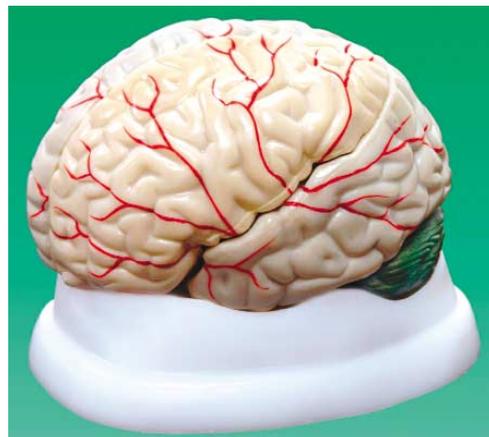
PLASTIC SKULL MODEL



This skull model is excellent for introductory anatomy courses. The life-sized unit shows excellent detail with a removable molar, incisor, and canine tooth for further study of the tooth roots. The mandible is spring mounted and the sectioned calvarium is detachable. A detailed key is included. Shipping weight: 2 lbs., dimensions: 7.5" x 7" x 7".

Item No.	Description
PSM001	Plastic Skull Model

BRAIN MODEL



This is an excellent life-size human brain model for students. It is dissectible into 3 parts and shows all major parts of the brain as well as some vascular structures. It comes with a sturdy base and a detailed key.

Shipping weight: 1.75 lbs., dimensions: 7.5" x 7" x 7".



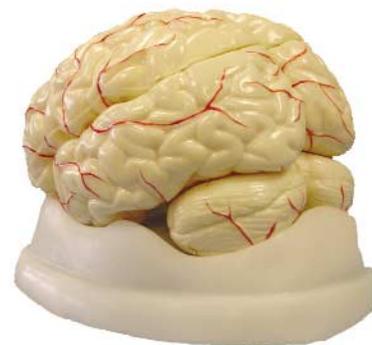
Brain is dissectable into three parts.

Item No.	Description
MAHB03	Brain Model

DELUXE BRAIN MODEL

This life-size brain model is dissectible into eight parts: two parts in the brain stem, two parts in the cerebellum, and four parts in the cerebrum. The following features are shown in vibrant colors: brain stem, nerves, blood vessels, parietal lobes, occipital lobes, and temporal lobes. A key and a molded plastic base are included.

Shipping weight: 3 lbs., dimensions: 8" x 6" x 6".



Deluxe brain is dissectable into eight parts.

Item No.	Description
MAHB08	Deluxe Brain Model



MEIOSIS MANIPULATIVES KIT



Teaching meiosis presents challenges for both teaching and learning because it is an abstract concept that requires visual and tactile models for most students to conceptualize. The exchange process of maternal and paternal alleles during cross-over is especially difficult without such a reference. A lot of time was spent designing, testing and refining this kit in classrooms to meet your needs. This kit will make teaching and learning meiosis much more enjoyable for you, just as it has for others.

The kit includes:

- **Teacher Demonstration Models:** Thirty large chromosomes arranged in five colorful sets that can be seen on your board from the back of your classroom. Each set consists of a maternal and paternal homolog and four sister chromatids. Alleles and parental lineage are clearly identified. The fifth set has removable alleles for demonstrating cross-over.

- **Student Models:** Students carry out teacher directed assignments at their desk using their own smaller sets of chromosomes. Includes 10 sets of reusable student models, enough for 30 students working in groups of 3.

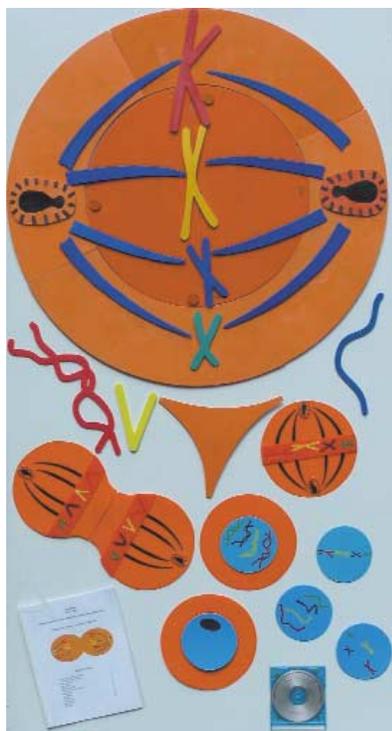
- **Instructional CD and Teacher Manual:** We will walk you through using the kit for the first time in an easy, familiar and pictorial slide show fashion. Don't worry if this is your first time teaching meiosis because absolutely everything you need is in the kit. Recommended student activity and assessment options are also included. We even provide a student activity sheet that you can copy.

This is a complete package that makes the complex biological process of meiosis come alive in your classroom. It makes teaching fun! Shipping weight: 7 lbs., dimensions: 21" x 19" x 5".

Item No.	Description
MEIKIT	Meiosis Manipulatives Kit

MITOSIS MANIPULATIVES KIT

NEW DESIGN!



Designed by teachers and tested by teachers, this kit greatly enhances students' understanding of the process of mitosis. All four stages of the cell cycle can be easily demonstrated with the parts included. The kit gives students a "hands on" experience without the need for expensive laboratory equipment.

The mitosis kit contains oversized teacher manipulatives (66 pieces), for use on a magnetic dry erase board. Magnets for teacher's manipulatives are included. Also included are 5 sets (85 pieces) of smaller student manipulatives, which are sufficient for a class of 30.

There are no consumable parts in this kit, so it can be used again and again! A detailed instructional CD is included in order to illustrate the uses of the kit's components. Also included is an activity manual to assist the teacher in preparing lesson plans and assessing the students' understanding of mitosis.

Shipping weight: 17 lbs., dimensions: 22" x 19" x 6".

Item No.	Description
MITKIT2	Mitosis Manipulatives Kit



BEAKERS, POLYPROPYLENE

Beakers, molded in polypropylene, have excellent clarity and very good chemical resistance. They are autoclavable and feature raised graduations on the outer surface. Griffin Style Beakers nest without sticking together. New Style beakers feature tapered spouts for easier pouring of solutions.

BEAKERS, GRIFFIN STYLE

Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
BP0050	50ml	5	55 x 55	12
BP0100	100ml	5	60 x 62	12
BP0250	250ml	10	85 x 100	6
BP0500	500ml	10	100 x 120	4
BP0600	600ml	10	110 x 125	4
BP1000	1000ml	25	124 x 150	3
BP2000	2000ml	250	155 x 185	3

BEAKERS, NEW STYLE

Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
11110	25ml	5	34 x 49	12
11111	50ml	5	43 x 54	12
11112	100ml	5	53 x 62	12
11113	250ml	10	72 x 100	6
11114	500ml	10	89 x 120	4
11115	1000ml	25	110 x 150	3



Beakers, Griffin Style



Beakers, New Style

STACKABLE BEAKERS NEW



Polypropylene beakers are highly flexible; a gentle squeeze creates a spout anywhere on the rim. Stacking the ribs prevents the beakers from sticking together.

Item No.	Capacity	Graduation Interval	O.D. x Height (mm)	Quantity per pack
BST120	120ml/4 oz.	10ml/0.5 oz.	70 x 64	25
BST120-CASE	120ml/4 oz.	50ml / 1 oz.	70 x 64	1000
BST500	500ml/ 17 oz.	10ml/0.5 oz.	108 x 95	25
BST500-CASE	500ml/ 17 oz.	50ml / 1 oz.	108 x 95	500

TRI-CORNER BEAKERS NEW



These sturdy polypropylene beakers feature three pouring lips for drip-less dispensing. Beakers are graduated in both ounces and milliliters. Available in packs of 100, or as an assortment of 30 beakers featuring 5 of each size.

Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
BTC0050	50ml	10ml	57 x 67	100
BTC0100	100ml	10ml	71 x 84	100
BTC0250	250ml	20ml	88 x 101	100
BTC0400	400ml	40ml	111 x 115	100
BTC0800	800ml	50ml	137 x 134	100
BTC1000	1000ml	50ml	143 x 141	100
BTCST30	Tri-Corner Beaker Set (five each of the above six sizes)			30

GRADUATED BEAKERS, PMP



Material: PMP (TPX)

Crystal clear, autoclavable beakers feature excellent chemical resistance. All sizes have easy to read silk screen graduations, with precise pouring spouts.

Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
KT1542	50ml	2	42 x 60	12
KT1543	100ml	5	52 x 75	12
KT1545	250ml	10	71 x 95	12
KT1546	500ml	10	88 x 130	6
KT1548	1000ml	20	110 x 150	4
KT1549	2000ml	50	133 x 190	4
KT1331	5000ml	500	190 x 330	1

PLASTIC BEAKER SET



This handy set for any laboratory contains 5 graduated polypropylene beakers in sizes 50ml, 100ml, 250ml, 500ml and 1000ml.

Item No.	Description
BPSET5	Plastic Beakers, Set of 5



LAB SUPPLIES - PLASTICWARE

MEASURING CYLINDERS (ROUND BASE)

Our Measuring Cylinders are molded as one-piece in polypropylene. These autoclavable cylinders have raised prominent graduations for easy reading and have excellent contact clarity. The broad round base provides good stability. Stated tolerances are the same as graduated intervals below.

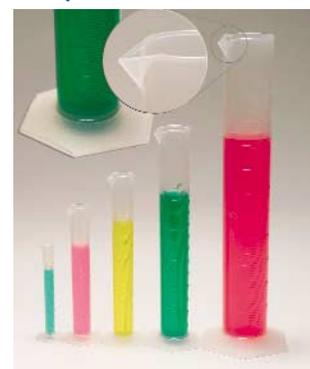
Item No.	Capacity	O.D. (mm)	Height (mm)	Graduation Interval (ml)	Quantity per pack
CP0010	10 ml	15	110	0.2 ml	24
CP0025	25 ml	19	170	0.5 ml	12
CP0050	50 ml	26	198	1 ml	12
CP0100	100 ml	34	210	1 ml	12
CP0250	250 ml	46	321	2 ml	6
CP0500	500 ml	56	361	5 ml	4
CP1000	1000 ml	72	375	10 ml	3
CP2000	2000 ml	90	473	20 ml	2



MEASURING CYLINDERS (HEXAGONAL BASE)

We also offer Measuring Cylinders with a hexagonal base. The hexagonal base provides excellent stability to the cylinder, and the tapered spout works really well while pouring any reagents. Stated tolerances are the same as graduated intervals below.

Item No.	Capacity	O.D. (mm)	Height (mm)	Graduation Interval (ml)	Quantity per pack
80031	10 ml	15	110	0.2 ml	24
80032	25 ml	19	170	0.5 ml	12
80033	50 ml	26	198	1 ml	12
80034	100 ml	34	210	1 ml	12
80035	250 ml	46	321	2 ml	6
80036	500 ml	56	361	5 ml	4
80037	1000 ml	72	375	10 ml	3



PLASTIC GRADUATED CYLINDER SET



A convenient set of 7 graduated polypropylene cylinders in sizes 10ml, 25ml, 50ml, 100ml, 250ml, 500ml, and 1000ml. Shipping weight: 1.75 lbs, dimensions: 15.5" x 10" x 4".

Also available as a set of 4 in sizes 10ml, 25ml, 50ml and 100ml.

Item No.	Description
CPSET7	Plastic Graduated Cylinders, Set of 7
CPSET4	Plastic Graduated Cylinders, Set of 4

GRADUATED MEASURING CYLINDERS, PMP

Material: PMP (TPX)
Crystal clear, autoclavable cylinders feature excellent chemical resistance. Permanent graduations are molded in. Pentagon bases provide added stability. Chemically non-absorbent and cleaner than glass. No wetting. No meniscus. Manufactured per ISO standard 6706 - 1981 (E), the stated tolerances are the same as graduated intervals below.



Item No.	Capacity (ml)	Graduation Interval (ml)	O.D. x Height (mm)	Quantity per pack
KT1570	10ml	0.2	13.5 x 138	12
KT1571	25ml	0.5	18.5 x 169	12
KT1572	50ml	1.0	26 x 198	12
KT1573	100ml	1.0	31 x 258	6
KT1574	250ml	2.0	41.5 x 314	6
KT1575	500ml	5.0	55 x 345	3
KT1576	1000ml	10.0	66 x 411	3
KT1577	2000ml	20.0	84 x 482	3



VOLUMETRIC FLASKS W/ SCREW CAPS, PMP

Material: PMP (TPX)

Crystal clear, autoclavable volumetric flasks create no meniscus. They are individually calibrated at 20° C to Class B standards. Thick walls eliminate distortion. Thin necks make final measurement precise. Autoclavable to 170° C. Chemically cleaner than glass and chemically non-absorbent. No wetting. Screw caps are included.



Item No.	Capacity (ml)	O.D. x Height (mm)	Quantity per pack
KT2490	50ml	46 x 143	20
KT2491	100ml	58 x 174	20
KT2492	250ml	82 x 225	10
KT2493	500ml	100 x 265	10
KT2494	1000ml	120 x 325	5

ERLENMEYER FLASK, PP

Wide-mouth, conical flask made of polypropylene. Comes with a screw cap, or can be used with a stopper. Chemical resistant, and autoclavable to 120° C. Graduated in easy to see green print.



Item No.	Capacity (ml)	Graduation Interval (ml)	Quantity per pack
FP0125	125 ml	25	12
FP0250	250 ml	50	12
FP0500	500 ml	50	12

VOLUMETRIC FLASKS W/ SCREW CAPS, PP

Material: Polypropylene

Translucent volumetric flasks create no meniscus. They are individually calibrated at 20° C to Class B standards. Thick walls eliminate distortion. Thin necks make final measurement precise. Autoclavable. Chemically non-absorbent. No wetting. Screw caps are included. More economical than PMP Volumetric Flasks.



Item No.	Capacity (ml)	O.D. x Height (mm)	Quantity per pack
KT1430	25ml	36 x 121	20
KT1431	50ml	46 x 143	20
KT1432	100ml	58 x 174	20
KT1433	250ml	82 x 225	10
KT1434	500ml	100 x 265	10
KT1435	1000ml	120 x 325	5

ASPIRATOR BOTTLES (CARBOYS), HEAVY DUTY

Material: HDPE

Very sturdy yet translucent bottles feature 2mm thick walls. The 3/4" BSP tap easily mounts on a 12mm deep thread in the aspirator for a leak proof fit. We recommend that a few drops of lubricant be put on the thread before assembly. Bottles feature soft seal caps with insert plugs, and come with carrying handles. Designed for life time service.



Item No.	Capacity (ml)	O.D. x Height (mm)	Mouth I.D. (mm)	Quantity per pack
KT1660	5 liters	163 x 335	46	1
KT1662	10 liters	210 x 414	55	1
KT1664	25 liters	279 x 525	55	1
KT1666	50 liters	366 x 603	55	1

PLASTIC PITCHERS

These handy jugs, molded in polypropylene, are clear, autoclavable and have good chemical resistance. All sizes have handles for convenient lifting, and feature raised graduations. Measuring jugs are available in both tall form and short form.

PLASTIC PITCHERS, TALL FORM

Item No.	Capacity	Top Flange Diameter (mm)	Height (mm)	Graduation Interval (ml)	Quantity per pack
81101	250 ml	83	99	10	12
81102	500 ml	97	126	10	12
81103	1000 ml	114	170	10	6
81104	2000 ml	150	212	20	6

PLASTIC PITCHERS, SHORT FORM

Item No.	Capacity	Top Flange Diameter (mm)	Height (mm)	Graduation Interval (ml)	Quantity per pack
81121	500 ml	95	110	25	12
81122	1000 ml	122	132	50	6
81123	2000 ml	145	167	50	6
81124	3000 ml	170	188	100	6
81105	5000 ml	184	225	250	1
PJSET5	Set of 5 Pitchers (includes 1 each of above)				1

Tall Form Pitchers



Short Form Pitchers





LAB SUPPLIES - PLASTICWARE

HDPE BOTTLES, BULK PACK NEW



Leak-proof narrow mouth bottles constructed of High-Density Polyethylene (HDPE), with Polypropylene (PP) closure. A great value!

WASH BOTTLES, UNITARY

These bottles are made of translucent and low density polyethylene (LDPE). The distinguishing feature that these bottles contain is the built-in delivery tube making it a one-piece wash bottle. These bottles are graduated on the outer surface to reflect an approximate volume of solution filled or dispensed.



Item No.	Description	Quantity per case
33402-BULK	Reagent Bottles, Narrow, HDPE, 125ml	500
33403-BULK	Reagent Bottles, Narrow, HDPE, 250ml	250
33404-BULK	Reagent Bottles, Narrow, HDPE, 500ml	125

Item No.	Capacity (ml)	Graduation Interval (ml)	Quantity per pack
36607	125 ml	25	12
36605	250 ml	50	12
36606	500 ml	100	12

GRADUATED NARROW MOUTH BOTTLES GRADUATED BOTTLES

Material: Bottle – Polyethylene, Cap - Polypropylene

Bottles feature cap inserts to ensure tight, leak-proof closure. Sloping shoulders are designed to minimize residue deposits. Tagging points on shoulder and cap ensure tamper proof closure. Easy grip cap.

Item No.	Capacity (ml)	O.D. x Height (mm)	Mouth I.D. (mm)	Graduation Interval (ml)	Quantity per pack
KT317	50ml	39 x 76	18.5	10	100
KT319	125ml	46 x 115	18.5	20	100
KT323	250ml	60 x 137	23	25	50
KT324	500ml	74 x 165	23	50	25
KT325	1000ml	93 x 213	34.5	100	20
KT326	2000ml	116 x 273	34.5	100	20



Graduated Narrow Mouth Bottles

GRADUATED WIDE MOUTH BOTTLES

Material: Bottle – Polyethylene, Cap - Polypropylene

Polyethylene bottles provide excellent chemical resistance and feature sealing plugs for leak-proof closure. Easy grip caps can be wired down for security. Head space between cap and insert plug can be used for confidential notes.

Item No.	Capacity (ml)	O.D. x Height (mm)	Mouth I.D. (mm)	Graduation Interval (ml)	Quantity per pack
KT408	50ml	40 x 77	24	10	100
KT409	100ml	48 x 89	24	20	100
KT410	250ml	61 x 126	34.5	25	50
KT411	500ml	75 x 158	34.5	50	20
KT412	1000ml	93 x 200	45	100	20
KT413	2000ml	115 x 247	45	100	20



Graduated Wide Mouth Bottles

GRADUATED WIDE MOUTH SQUARE BOTTLES

Material: Bottle – Polyethylene, Cap - Polypropylene

Space saving, graduated bottles are ideal for long-term storage of samples. Easy grip caps can be wired down for security. Head space between cap and insert plug can be used for confidential notes.

Item No.	Capacity (ml)	Dimensions (mm)	Mouth I.D. (mm)	Graduation Interval (ml)	Quantity per pack
KT609	50ml	38 x 38 x 70	24	10	100
KT610	100ml	42 x 48 x 90	34.5	20	100
KT611	250ml	57 x 60 x 110	34.5	50	50
KT612	500ml	70 x 80 x 138	45	100	25
KT613	1000ml	80 x 103 x 176	58	100	20
KT614	2000ml	100 x 134 x 210	58	100	20



Graduated Wide Mouth Square Bottles

Bottles also available in Amber color. See price list for details.



REAGENT BOTTLES, ECONOMY

**NOW AVAILABLE
IN HDPE!**

Reagent Bottle,
Narrow Mouth



Reagent Bottles,
Wide Mouth



Available in polypropylene (PP) as well as high density polyethylene (HDPE). The PP bottles are rigid, translucent and have excellent contact clarity. These bottles can be autoclaved. The HDPE bottles are not rigid yet have excellent strength.

REAGENT BOTTLES, NARROW MOUTH

Item No. for PP	Item No. for HDPE	Capacity (ml)	Height (mm)	Neck Dia. ID/OD	Quantity per pack
33301	33401	60 ml	72mm	17/22mm	12
33302	33402	125 ml	110mm	16.5/20mm	12
33303	33403	250 ml	139mm	20/25mm	12
33304	33404	500 ml	165mm	20/25mm	12
33305	NA	1000 ml	222mm	20/25mm	6

REAGENT BOTTLES, WIDE MOUTH

Item No. for PP	Item No. for HDPE	Capacity (ml)	Height (mm)	Neck Dia. ID/OD	Quantity per pack
33306	33406	60 ml	73mm	20/25mm	12
33307	33407	125 ml	100mm	27/32mm	12
33308	33408	250 ml	137mm	35/41mm	12
33309	33409	500 ml	149mm	35/41mm	12
33310	NA	1000 ml	218mm	35/41mm	6

PLASTICWARE STARTER KIT *NEW*



A customized plasticware assortment that is designed for general laboratory use. This kit offers a wider selection of general plasticware products than our PLKIT20.

Contents:

Beaker Set of 5, (50, 100, 250, 500 & 1000ml)	1
Graduated Cylinder Set of 4 (10, 25, 50 & 100ml)	1
Wash Bottle, 250ml	1
Wash Bottle, 500ml	1
Reagent Bottle, PP, Narrow Mouth, 250ml	1
Reagent Bottle, PP, Narrow Mouth, 500ml	1
Reagent Bottle, PP, Widemouth, 250ml	1
Reagent Bottle, PP, Widemouth, 500ml	1
Measuring Jug, 500ml	1
Measuring Jug, 1000ml	1

Item No.	Description
PLSKIT1	Plasticware Starter Kit

STUDENT PLASTICWARE ASSORTMENT



An affordable assortment of some of the most commonly used plastic labware items. Kit consists of 20 items shipped in a plastic storage box.

Contents:

Beaker, 100ml	1	Drop Dispenser Bottle	1
Beaker, 250ml	1	Reagent Bottle	4
Graduated Cylinder, 10ml	1	Wash Bottle	1
Graduated Cylinder, 100ml	1	Plastic Test Tubes	3
Funnel, 65mm top diameter	1	Pipettes	6

Item No.	Description
PLKIT20	Student Plasticware Kit



LAB SUPPLIES - PLASTICWARE

FUNNELS

FUNNELS, STANDARD STEM

These long stem funnels have smooth walls, 60 degree cone angle and external ribs to prevent air lock. Molded in polypropylene, these clear funnels can also be steam autoclaved.



Item No.	Capacity (ml)	Top Outside Diameter (mm)	Stem Length (mm)	Quantity per pack
FSPP55	20	57	40	12
FSPP65	45	67	65	12
FSPP75	75	79	70	12
FSPP10	150	101	85	6
FSPP150	500	150	110	6

FUNNELS, SHORT STEM

These powder funnels feature wide, short stems. The 65 mm and 125 mm sizes are made of high density polyethylene, and the 85 mm size is made of polypropylene.



Item No.	Capacity (ml)	Top Outside Diameter (mm)	Stem Length (mm)	Quantity per pack
FHD165	35	67	20	12
FHD185	100	85	30	12
FHD125	300	125	38	12

FUNNELS, SEPARATORY

Providing excellent clarity and strength, this pear-shaped polypropylene separating funnel has a leakproof threaded screw cap. The polypropylene stopcock, fitted with a self-lubricating PTFE plug, is push-fitted to the stem of the funnel. Not graduated.



Item No.	Capacity (ml)	Top Outside Diameter (mm)	Stem Length (mm)	Quantity per pack
81201	100 ml	55	45	1
81202	250 ml	75	45	1
81203	500 ml	90	45	1

SEPARATORY FUNNEL HOLDER

This non-corrosive separatory funnel holder, molded in polypropylene, has a front opening which provides clear view of the solution and allows unobstructed placement of separating funnels. Two tapered wedges are provided to ensure firm grip on rods measuring 1/2" or 3/8" diameter.



Item No.	Description	Quantity per pack
45104	Separatory Funnel Holder	12

FUNNEL, POWDER

A good quality polyethylene powder funnel for general lab use. Dimensions are 23mm stem diameter, 105mm top diameter, and 95mm overall length. Capacity is 150mL.



Item No.	Description	Quantity per pack
FPP100	Powder Funnel	6

FUNNELS, UTILITY

Available in three sizes, these funnels have eight internal ribs to facilitate filtration. They are made of polypropylene.



Item No.	Capacity (ml)	Top Outside Diameter (mm)	Stem Length (mm)	Quantity per pack
FPPC35	5	37	30	12
FPPC52	25	56	30	12
FPPC65	40	67	30	12
FPPC03-PK/3	One each of the above 3 funnels.			1

FUNNELS, BUCHNER

These polypropylene 2-piece funnels are light-weight, easy to clean and autoclavable. The top portion snaps into the lower one, forming a vacuum seal that does not require greasing. The base of the top portion has a perforated filter plate.



Item No.	Capacity (ml)	Top O.D. (mm)	Stem Length (mm)	Filter Paper Size (cm)	Qty per pack
57105	125	80	60	7	12
57105-A	300	104	70	9	12
57106	650	136	85	11	12

FUNNEL HOLDER

Made of polypropylene, these corrosion free funnel holders can hold funnels with diameters 3" to 6". The extra plate provided can be placed to hold funnels having diameter 1" to 3". Two tapered wedges are provided to ensure firm grip on rods measuring 1/2" or 3/8" diameter.



Item No.	Description	Quantity per pack
45103	Funnel Holder	12



DESICCATORS



These autoclavable desiccators are made of polypropylene (PP) and polycarbonate and can hold vacuum up to 740mm Hg for 24 hours without any greasing. The PP stopcock has a self lubricating PTFE plug that works to create the vacuum, shut it off and release it. Autoclavable at 120° C for 15 minutes. Non-vacuum (Plain) desiccators are physically the same as vacuum desiccators. Only difference is the absence of stopcock. Grease should be applied on the flanges to make it air-tight.

NON-VACUUM DESSICATORS

Item No.	Description	Flange OD/ID (mm)	Plate OD (mm)	Height (mm)	Maximum Clearance* (mm)	Quantity per pack
55201	6"	171/150	138	204	123	1
55202	8"	232/199	190	257	166	1
55203	10"	276/240	248	315	207	1

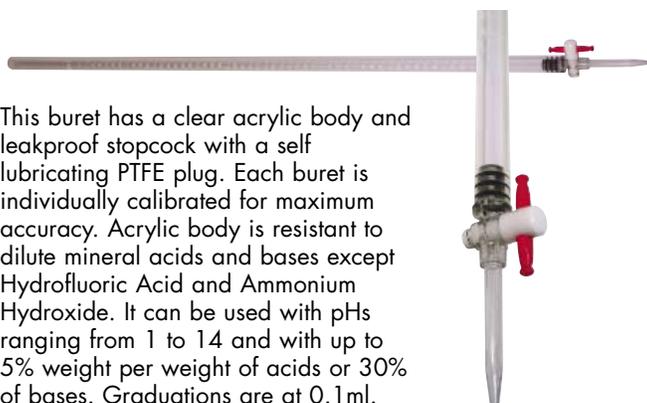
* Maximum clearance above plate.

VACUUM DESSICATORS

Item No.	Description	Flange OD/ID (mm)	Plate OD (mm)	Height (mm)	Maximum Clearance* (mm)	Quantity per pack
55204	6"	171/150	138	204	123	1
55205	8"	232/199	190	257	166	1
55206	10"	276/240	248	315	207	1

* Maximum clearance above plate.

ACRYLIC BURET



This buret has a clear acrylic body and leakproof stopcock with a self lubricating PTFE plug. Each buret is individually calibrated for maximum accuracy. Acrylic body is resistant to dilute mineral acids and bases except Hydrofluoric Acid and Ammonium Hydroxide. It can be used with pHs ranging from 1 to 14 and with up to 5% weight per weight of acids or 30% of bases. Graduations are at 0.1 ml.

Item No.	Capacity (ml)	Overall Length (mm)	Quantity per pack
11501	25 ml	570	1
11502	50 ml	735	1
11503	100 ml	835	1

JARS, CYLINDRICAL WITH SCREW CAPS

Material: HDPE
Sturdy Jars feature a wide mouth and are ideal for storing powders and solid specimens. Caps feature an insert for tight, leak-proof closure.



Item No.	Capacity (ml)	O.D. x Height (mm)	Mouth I.D. (mm)	Quantity per pack
KT1563	70ml	50 x 60	36	100
KT1564	120ml	56 x 71	36	100
KT1565	250ml	69 x 94	50	50
KT1566	500ml	86 x 107	70	50
KT1567	1000ml	111 x 128	85	20
KT1569	1500ml	111 x 182	87	10
KT1568	2000ml	111 x 235	87	10

STORAGE VIALS

NEW



These polypropylene (PP) vials are generally used for the storage of PCR reagents, enzymes, and other diagnostics and biochemical reagents / samples. Each vial has an HDPE leak-proof cap. Vials can be used from -30° C to 95° C.

Item No.	Description	Quantity per pack
SVIAL2	Storage Vial, 2ml capacity, 11.5mm O.D. x 46mm height	1000
SVIAL5	Storage Vial, 5ml capacity, 11.5mm O.D. x 87mm height	1000

RIA VIALS, WITH CAP

NEW



Available in both polypropylene and polystyrene. The polypropylene vials are designed for use with common acids, alkalis, and solvents at room temperature. The polystyrene vials are designed for use with mild bases and weak acids.

Dimensions are 12mm O.D. x 75mm height.

Item No.	Description	Quantity per pack
RVIAL-PP	RIA Vial with Cap, Clear, Autoclavable	500
RVIAL-PS	RIA Vial with Cap, Clear, Non-Autoclavable	500



LAB SUPPLIES - PLASTICWARE

CENTRIFUGE TUBE BOX NEW



These polypropylene centrifuge boxes are a more durable alternative to foam racks. Boxes are autoclavable.

Dimensions of each box are 145mm L x 145mm W x 125mm H.

Item No.	Description
D1023	Centrifuge Tube Box, 36 places, holds 15ml tubes
D1024	Centrifuge Vial Box, 16 places, holds 50ml tubes

CRYOGENIC VIALS, STERILE NEW



Each of these polypropylene vials is able to withstand extremely low temperatures. Additional features include:

- A large white frosted portion for easy writing.
- Graduation silk screen printing, which makes identification easy.
- A plug in each cap that makes it completely leak proof.

Item No.	Description	Quantity per pack
CRVIAL1	Cryogenic Vial, 1.8ml capacity, 11.5mm O.D. x 46mm height	1000
CRVIAL2	Cryogenic Vial, 4.5ml capacity, 11.5mm O.D. x 87mm height	500

Cryogenic Vials and Vial Boxes are available in other colors. Please call for details.

CRYOGENIC VIAL BOX NEW



Available in two sizes, each box is designed to hold 81 vials of either the 1.8ml cryogenic vial or the 4.5ml cryogenic vials. Additionally, each box has transparent lids, as well as numbered grids for sample identification. Designed for use in extremely low temperatures with both internally and externally threaded cryogenic vials.

Item No.	Description
CRBOX1	Cryogenic Vial Box, 81 places, holds 1.8ml vials
CRBOX2	Cryogenic Vial Box, 81 places, holds 4.5ml vials

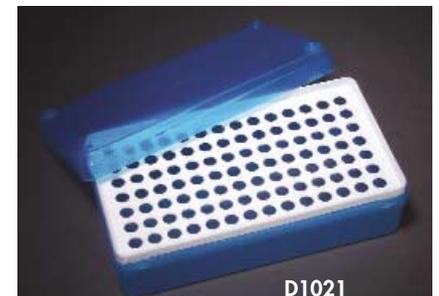
CENTRIFUGE TUBES

These polypropylene tubes feature a screw top with easy to read black graduations. These sterile, conical bottom tubes also feature a writing area to allow for easy sample identification. Temperatures between 0 and 40 degrees Celsius are the suggested working range.



Item No.	Description	Quantity per pack	Quantity per case
D1003	15 ml Conical Bottom with Black graduations, Blue caps	50	500 (racked)
D1001	50 ml Conical Bottom with Black graduations, Blue caps	50	500 (bulk)
D1002	50 ml Conical Bottom, self standing with Black graduations, Blue caps	50	500 (bulk)

MICROCENTRIFUGE TUBES AND RACKS



Clear plastic micro centrifuge tubes with attached thumb caps. Tubes are graduated and autoclavable. Racks are made of polypropylene and feature removable lids.

Item No.	Description
Micro centrifuge tubes:	
D1011	0.5ml, pack of 1000
D1010	1.5ml, pack of 500
Micro centrifuge tube racks:	
D1021	98 places, for 0.5 ml tubes, each
D1022	72 places for 1.5ml tubes, each

PHYSICAL PROPERTIES OF UNITED PLASTIC LABWARE

Resin	Maximum Use Temperature (C)	Brittleness Temperature (C)	Transparency	Autoclavable
High Density Polyethylene (HDPE)	80	-50	Translucent	No
Low Density Polyethylene (LDPE)	75	-50	Translucent	No
Polycarbonate (PC)	135	-100	Clear	Yes
Polypropylene (PP)	120	-10	Translucent	Yes
Polystyrene (PS)	70	-10	Clear	No
Polymethylpentene (PMP)	120	0	Clear	Yes



BEAKERS



Beakers, Low Form

Our beakers are made from low-expansion borosilicate glass. Beakers feature heavy and uniform wall thickness; spouts designed for easy pouring, and beaded tops. The 20ml and larger sizes also have white printed graduations and a marking area. Tolerance for beakers is approximately +/- 5%.

BEAKERS, LOW FORM

Item No.	Capacity	Graduation Range (ml)	Graduation Interval (ml)	Quantity per pack	Quantity per case
BG1000-5	5 ml	NA	NA	12	48
BG1000-10	10 ml	NA	NA	12	48
BG1000-20	20 ml	5 - 15	10	12	48
BG1000-25	25 ml	10 - 20	10	12	48
BG1000-30	30 ml	5 - 25	10	12	48
BG1000-50	50 ml	10 - 40	10	12	48
BG1000-100	100 ml	20 - 80	10	12	48
BG1000-150	150 ml	20 - 140	20	12	48
BG1000-250	250 ml	25 - 200	25	12	48
BG1000-400	400 ml	50 - 325	25	12	48
BG1000-500	500 ml	100 - 400	50	6	36
BG1000-600	600 ml	100 - 500	50	6	36
BG1000-800	800 ml	100 - 750	50	6	24
BG1000-1000	1000 ml	100 - 900	50	6	24
BG1000-1500	1500 ml	200 - 1400	200	4	16
BG1000-2000	2000 ml	200 - 1800	200	1	8
BG1000-3000	3000 ml	250 - 2500	250	1	4
BG1000-4000	4000 ml	500 - 3500	500	1	6
BG1000-5000	5000 ml	1000 - 4000	500	1	4
BG1000-10000	10000 ml	2000 - 8000	1000	1	1



Beaker, Berzelius Tall Form

BEAKERS, BERZELIUS, TALL FORM WITH SPOUT

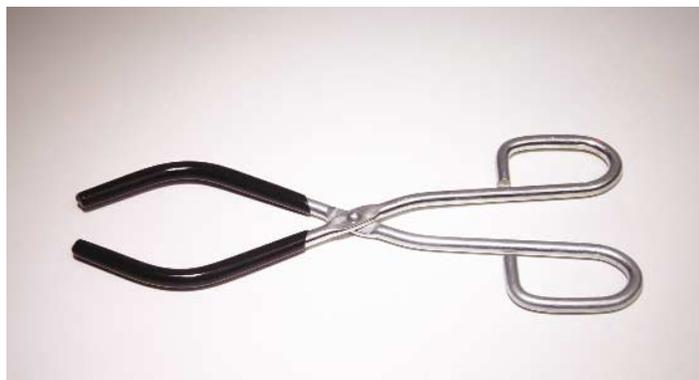
Item No.	Capacity	Graduation Range (ml)	Graduation Interval (ml)	Quantity per pack	Quantity per case
BG1060-100	100 ml	20 - 80	10	12	48
BG1060-200	200 ml	25 - 150	25	12	48
BG1060-250	250 ml	25 - 200	25	12	48
BG1060-300	300 ml	25 - 250	25	12	48
BG1060-400	400 ml	50 - 325	25	6	36
BG1060-500	500 ml	100 - 400	50	6	24
BG1060-600	600 ml	100 - 500	50	6	24
BG1060-1000	1000 ml	100 - 900	50	6	18

Please see page 99 for our Beaker Brush.



LAB SUPPLIES - GLASSWARE

BEAKER TONGS



Beaker tongs feature strong zinc-plated steel construction with flat riveted joints and vinyl coated sleeves that open to 7". Tongs can handle beakers from 50ml to 1500ml capacity. Overall length is 9.75". Shipping weight: 0.4 lbs.

Item No.	Description	Quantity per pack
BTSP09	Beaker Tongs	1

GLASS BEAKER SET



An ideal starter set for any laboratory, this set contains 5 borosilicate glass beakers in sizes 50ml, 100ml, 250ml, 600ml, and 1000ml. Shipping weight: 2.10 lbs., dimensions: 7.5" x 7.5" x 7.5".

Item No.	Description
BGSET5	Glass Beakers, Set of 5

FUNNELS

Separatory Funnel, Conical Shape



SEPARATORY FUNNEL, CONICAL SHAPE WITH PTFE STOPCOCK AND PLASTIC STOPPER

Item No.	Capacity (ml)	Quantity per pack	Quantity per case
SF149-50	50 ml	2	20
SF149-100	100 ml	2	20
SF149-250	250 ml	2	20
SF149-500	500 ml	2	20
SF149-1000	1000 ml	1	10
SF149-2000	2000 ml	1	10



Funnel, 60° Angle, Long Stem

FUNNELS, GLASS, 60° ANGLE, LONG STEM

Item No.	Approx. Top Dia. (mm)	Stem Length (mm)	Overall Length (mm)	Quantity per pack	Quantity per case
GF6140-50	50	150	195	6	12
GF6140-65	65	150	205	6	12
GF6140-75	75	150	215	6	12
GF6140-100	100	150	235	6	6

FUNNELS, GLASS, 60° ANGLE, FLUTED, SHORT STEM

Item No.	Approx. Top Dia. (mm)	Stem Length (mm)	Overall Length (mm)	Quantity per pack	Quantity per case
GF6180-50	50	150	195	12	48
GF6180-65	65	150	205	12	48



BURETTES

Burettes are made from the highest quality accurate bore tubing to provide a high degree of accuracy, reliability, and durability. All graduations are in resilient white enamel.

BURETTES WITH STRAIGHT BORE TEFLON (PTFE) STOPCOCKS, ACCURACY AS PER CLASS "B"

Item No.	Capacity	Graduation Interval (ml)	Quantity per pack	Quantity per case
BR2130-10	10 ml	0.05	1	6
BR2130-25	25 ml	0.10	1	6
BR2130-50	50 ml	0.10	1	6
BR2130-100	100 ml	0.20	1	4

BURETTES WITH GENERAL PURPOSE SCREW THREAD STOPCOCKS WITH PTFE KEYS, ACCURACY AS PER CLASS "B"

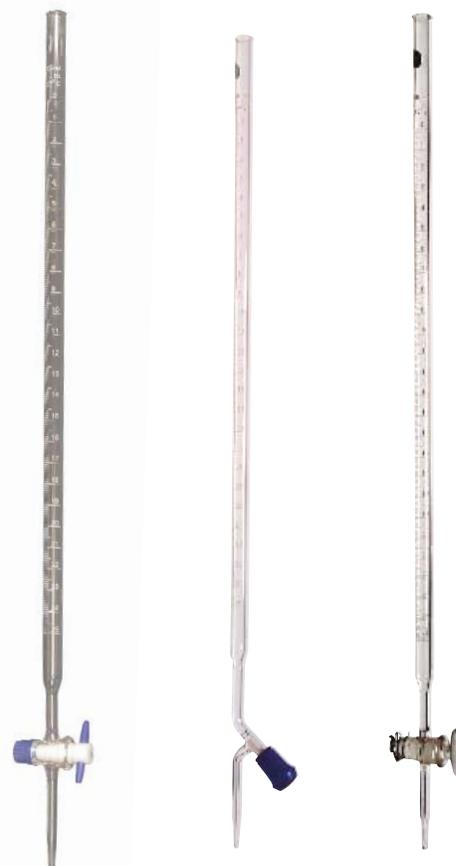
Item No.	Capacity	Graduation Interval (ml)	Quantity per pack	Quantity per case
BR2122-10	10 ml	0.05	1	6
BR2122-25	25 ml	0.10	1	6
BR2122-50	50 ml	0.10	1	6
BR2122-100	100 ml	0.20	1	4

BURETTES WITH STRAIGHT BORE GLASS STOPCOCK**, ACCURACY AS PER CLASS "B"

Item No.	Capacity	Graduation Interval (ml)	Quantity per pack	Quantity per case
BR2124-10	10 ml	0.05	1	6
BR2124-25	25 ml	0.10	1	6
BR2124-50	50 ml	0.10	1	6
BR2124-100	100 ml	0.20	1	4

** Stopcock plugs are not interchangeable. We recommend using different types of greases depending on the reagent used. Contact us for details.

Please see page 99 for our Burette Brush.



BR2130 Burette

BR2122 Burette

BR2124 Burette

AUTOMATIC BURETTE NEW



Self-zeroing automatic burette that is mounted on a reservoir with a PTFE needle valve stopcock (screw type) and rubber bellow.

Item No.	Description	Quantity per pack
BRA214-10	Automatic Burette, 10 ml	1
BRA214-25	Automatic Burette, 25 ml	1
BRA214-50	Automatic Burette, 50 ml	1

BARNES DROPPING BOTTLE, 30 ML



Square shaped clear flint glass bottles with glass pipet and rubber bulb stopper. Capacity 30ml. Replacement pipets also available. Standard pack quantity is 36 each.

Item No.	Description
BOT030	Bottle, with pipet and rubber bulb
BPB010-PK/10	Replacement pipets and bulbs (pk/10)
BPB010-PK/12	Replacement pipets and bulbs (pk/12)
BULB010-PK/12	Replacement bulbs (pk/12)



LAB SUPPLIES - GLASSWARE

BURETTES, CLASS A *NEW*



Buret with PTFE Straight Bore Stopcock



Buret with PTFE Screw Thread Stopcock

BURETTES, WITH PTFE SCREW THREAD STOPCOCK, CLASS A, ASTM E-287, BATCH CERTIFIED

Item No.	Description	Quantity per pack
113.450.01	10ml Capacity, 0.05ml Graduations	1
113.450.02	25ml Capacity, 0.10ml Graduations	1
113.450.03	50ml Capacity, 0.10ml Graduations	1

BURETTES, WITH PTFE SCREW THREAD STOPCOCK, CLASS A, ASTM E-287, MEETS USP STANDARDS, SERIALIZED AND CERTIFIED, BLUE GRADUATIONS

Item No.	Description	Quantity per pack
113.220.01	10ml Capacity, 0.05ml Graduations	1
113.220.02	25ml Capacity, 0.10ml Graduations	1
113.220.03	50ml Capacity, 0.10ml Graduations	1

BURETTES, WITH PTFE STRAIGHT BORE STOPCOCK, CLASS A, ASTM E-287, BATCH CERTIFIED

Item No.	Description	Quantity per pack
115.450.01	10ml Capacity, 0.05ml Graduations	1
115.450.02	25ml Capacity, 0.10ml Graduations	1
115.450.03	50ml Capacity, 0.10ml Graduations	1

BURETTES, WITH PTFE STRAIGHT BORE STOPCOCK, CLASS A, ASTM E-287, MEETS USP STANDARDS, SERIALIZED AND CERTIFIED, BLUE GRADUATIONS

Item No.	Description	Quantity per pack
115.220.01	10ml Capacity, 0.05ml Graduations	1
115.220.02	25ml Capacity, 0.10ml Graduations	1
115.220.03	50ml Capacity, 0.10ml Graduations	1

FLINT GLASS BOTTLE

Round clear flint glass bottle, 60 ml capacity.



Item No.	Description
BOT060	Glass Bottle 60 ml

EYE DROPPER



Straight pipettes with glass tube and tapered rubber bulbs. About 70 mm long with 2 ml capacity.

Item No.	Description
BPB002-PK/3	Eye Dropper, pack of 3
BPB002-PK/72	Eye Dropper, pack of 72

MEDIA / STORAGE BOTTLES



These Borosilicate Glass, general purpose media bottles are autoclavable with permanent white imprinted graduations and marking spots. The screw thread opening has an ID of approximately 30mm. The supplied cap is liner-less and both the cap and drip free ring are polypropylene autoclavable to 140° Celsius (284° Fahrenheit). Maximum use temperature of bottles is 450° Celsius.

MEDIA / STORAGE BOTTLES

Item No.	Capacity (ml)	Graduation Range (ml)	O.D. x Height	Quantity per case
BM0100	100	20-80	56 x 100	10
BM0250	250	50-200	70 x 138	10
BM0500	500	100-400	86 x 175	10
BM1000	1000	100-900	101 x 225	10
BM2000	2000	400-1800	136 x 262	4



GRADUATED CYLINDERS

Borosilicate glass cylinders with pour spouts feature heavy uniform wall tubing and strong, stable, hexagonal bases. All cylinders come with bumper guards.



CY3022, CY3075

CYLINDERS, ALL GLASS, HEX BASE, SINGLE METRIC SCALE, "CLASS B"

Item No.	Capacity (ml)	Graduation Interval (ml)	Tolerance (\pm ml)	Quantity per pack
CY3022-5	5	0.1	0.1	12
CY3022-10	10	0.2	0.2	12
CY3022-25	25	0.5	0.34	12
CY3022-50	50	1	0.5	12
CY3022-100	100	1	1	12
CY3022-250	250	2	2	12
CY3022-500	500	5	4	8
CY3022-1000	1000	10	6	1
CY3022-2000	2000	20	12	1

CYLINDERS, ALL GLASS, HEX BASE, DOUBLE METRIC SCALE, "CLASS B"

Item No.	Capacity (ml)	Graduation Interval (ml)	Tolerance (\pm ml)	Quantity per pack
CY3075-10	10	0.2	0.2	12
CY3075-25	25	0.5	0.34	12
CY3075-50	50	1	0.50	12
CY3075-100	100	1	1	12
CY3075-250	250	2	2	12
CY3075-500	500	5	4	8
CY3075-1000	1000	10	6	1
CY3075-2000	2000	20	12	1



CY137

HYDROMETER CYLINDERS

Made from heavy borosilicate glass, these cylinders have a beaded top with a pouring spout and a round base for stability. We also carry hydrometers (see page 43 of this catalog).



Item No.	Description	Height	Diameter
HYC500	500 ml Hydrometer Cylinder	300 mm	50 mm
HYC600	600 ml Hydrometer Cylinder	375 mm	50 mm
HYC1000	1000 ml Hydrometer Cylinder	425 mm	65 mm
HYC1200	1200 ml Hydrometer Cylinder	450 mm	65 mm

CYLINDERS, GLASS, WITH PLASTIC HEX BASE, "CLASS B"

Item No.	Capacity (ml)	Graduation Interval (ml)	Quantity per pack
CY137-5	5	0.1	10
CY137-10	10	0.2	10
CY137-25	25	0.5	10
CY137-50	50	1	10
CY137-100	100	1	10
CY137-250	250	2	10



LAB SUPPLIES - GLASSWARE

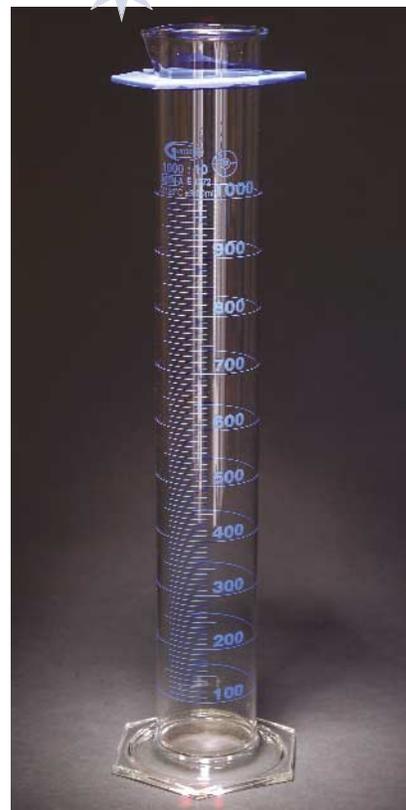
GRADUATED CYLINDERS, CLASS A *NEW*

GRADUATED CYLINDERS, SINGLE SCALE, TO CONTAIN, WITH HEXAGONAL BASE AND BUMPER GUARD, CLASS A, ASTM E-1272, BATCH CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
139.450.01A	10ml Capacity; 0.2ml Graduations	1	24
139.450.02A	25ml Capacity; 0.5ml Graduations	1	18
139.450.03A	50ml Capacity; 1.0ml Graduations	1	18
139.450.04A	100ml Capacity; 1.0ml Graduations	1	12
139.450.05A	250ml Capacity; 2.0ml Graduations	1	12
139.450.06A	500ml Capacity; 5.0ml Graduations	1	8
139.450.07A	1000ml Capacity; 10.0ml Graduations	1	1
139.450.08A	2000ml Capacity; 20.0ml Graduations	1	1

GRADUATED CYLINDERS, SINGLE SCALE, TO CONTAIN, WITH HEXAGONAL BASE AND BUMPER GUARD, CLASS A, ASTM E-1272, MEETS USP STANDARDS, SERIALIZED AND CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
139.220.01A	10ml Capacity; 0.2ml Graduations	1	6
139.220.02A	25ml Capacity; 0.5ml Graduations	1	6
139.220.03A	50ml Capacity; 1.0ml Graduations	1	6
139.220.04A	100ml Capacity; 1.0ml Graduations	1	6
139.220.05A	250ml Capacity; 2.0ml Graduations	1	4
139.220.06A	500ml Capacity; 5.0ml Graduations	1	4
139.220.07A	1000ml Capacity; 10.0ml Graduations	1	2
139.220.08A	2000ml Capacity; 20.0ml Graduations	1	1



Graduated Cylinder

GRADUATED CYLINDERS, SINGLE SCALE, TO CONTAIN, WITH HEXAGONAL BASE AND BUMPER GUARD, CLASS A, ASTM E-1272, BATCH CERTIFIED, WITH GLASS STOPPER

Item No.	Description	Quantity per pack	Quantity per case
142.451.01	10ml Capacity; 0.2ml Graduations	1	24
142.451.02	25ml Capacity; 0.5ml Graduations	1	18
142.451.03	50ml Capacity; 1.0ml Graduations	1	18
142.451.04	100ml Capacity; 1.0ml Graduations	1	12
142.451.05	250ml Capacity; 2.0ml Graduations	1	12
142.451.06	500ml Capacity; 5.0ml Graduations	1	8
142.451.07	1000ml Capacity; 10.0ml Graduations	1	1
142.451.08	2000ml Capacity; 20.0ml Graduations	1	1

GRADUATED CYLINDERS, SINGLE SCALE, TO CONTAIN, WITH HEXAGONAL BASE AND BUMPER GUARD, CLASS A, ASTM E-1272, MEETS USP STANDARDS, SERIALIZED AND CERTIFIED, WITH GLASS STOPPER

Item No.	Description	Quantity per pack	Quantity per case
142.236.01	10ml Capacity; 0.2ml Graduations	1	6
142.236.02	25ml Capacity; 0.5ml Graduations	1	6
142.236.03	50ml Capacity; 1.0ml Graduations	1	6
142.236.04	100ml Capacity; 1.0ml Graduations	1	6
142.236.05	250ml Capacity; 2.0ml Graduations	1	4
142.236.06	500ml Capacity; 5.0ml Graduations	1	4
142.236.07	1000ml Capacity; 10.0ml Graduations	1	2
142.236.08	2000ml Capacity; 20.0ml Graduations	1	1



Graduated Cylinder with Glass Stopper



FLASKS, VOLUMETRIC

FLASK, VOLUMETRIC WITH INTERCHANGEABLE GLASS STOPPER CLASS B

Item No.	Capacity (ml)	Tolerance (\pm ml)	Stopper Size	Quantity per pack
FG5641-5	5 ml	0.05	10/15	12
FG5641-10	10 ml	0.04	10/15	12
FG5641-25	25 ml	0.06	10/15	12
FG5641-50	50 ml	0.10	10/15	12
FG5641-100	100 ml	0.16	14/15	12
FG5641-200	200 ml	0.30	14/15	12
FG5641-250	250 ml	0.34	14/15	12
FG5641-500	500 ml	0.40	19/20	12
FG5641-1000	1000 ml	0.60	19/20	6
FG5641-2000	2000 ml	1.20	24/25	4

FLASK, VOLUMETRIC WITH SNAP CAP, CLASS B

Item No.	Capacity (ml)	Tolerance (\pm ml)	Quantity per pack
FG5581-50	50 ml	0.10	12
FG5581-100	100 ml	0.16	12
FG5581-250	250 ml	0.24	12
FG5581-500	500 ml	0.40	12
FG5581-1000	1000 ml	0.60	6
FG5581-2000	2000 ml	1.0	4



FG5641



FG5581

VOLUMETRIC FLASKS, CLASS A



VOLUMETRIC FLASKS, WITH GLASS STOPPER, CALIBRATED TO CONTAIN, CLASS A, ASTM E-288, BATCH CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
130.451.01	5ml; +/- 0.01 ml Tolerance	6	72
130.451.02	10ml; +/-0.02 ml Tolerance	6	72
130.451.03	25ml; +/-0.03 ml Tolerance	6	72
130.451.04	50ml; +/-0.05 ml Tolerance	4	48
130.451.05	100ml; +/-0.08 ml Tolerance	4	48
130.451.06	200ml; +/-0.10 ml Tolerance	4	24
130.451.07	250ml; +/-0.12 ml Tolerance	4	24
130.451.08	500ml; +/-0.20 ml Tolerance	2	12
130.451.09	1000ml; +/-0.30 ml Tolerance	2	8
130.451.10	1000ml; +/-0.50 ml Tolerance	2	8

VOLUMETRIC FLASKS, WITH GLASS STOPPER, CALIBRATED TO CONTAIN, CLASS A, ASTM E-288, SERIALIZED AND CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
130.236.02	10ml; +/-0.02 ml Tolerance	1	1
130.236.03	25ml; +/-0.03 ml Tolerance	1	1
130.236.04	50ml; +/-0.05 ml Tolerance	1	1
130.236.05	100ml; +/-0.08 ml Tolerance	1	1
130.236.06	200ml; +/-0.10 ml Tolerance	1	1
130.236.07	250ml; +/-0.12 ml Tolerance	1	1
130.236.08	500ml; +/-0.20 ml Tolerance	1	1
130.236.09	1000ml; +/-0.30 ml Tolerance	1	1
130.236.10	1000ml; +/-0.50 ml Tolerance	1	1



Volumetric Flask with Glass Stopper



Volumetric Flask with Snap Cap

VOLUMETRIC FLASK, WITH SNAP CAP, CALIBRATED TO CONTAIN, CLASS A, ASTM E-288, BATCH CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
130.450.01	5ml; +/- 0.01 ml Tolerance	6	72
130.450.02	10ml; +/-0.02 ml Tolerance	6	72
130.450.03	25ml; +/-0.03 ml Tolerance	6	72
130.450.04	50ml; +/-0.05 ml Tolerance	4	48
130.450.05	100ml; +/-0.08 ml Tolerance	4	48
130.450.06	200ml; +/-0.10 ml Tolerance	4	24
130.450.07	250ml; +/-0.12 ml Tolerance	4	24
130.450.08	500ml; +/-0.20 ml Tolerance	2	12
130.450.09	1000ml; +/-0.30 ml Tolerance	2	8
130.450.10	1000ml; +/-0.50 ml Tolerance	2	8



LAB SUPPLIES - GLASSWARE

FLASKS

Borosilicate glass flasks are designed to give the best combination of thermal shock resistance, physical strength, and resistant to chemical attack.

ERLENMEYER FLASK, NARROW MOUTH

Item No.	Capacity (ml)	Graduation Range (ml)	Graduation Interval (ml)	Quantity per pack	Quantity per case
FG4980-10**	10 ml	NA	NA	12	36
FG4980-25	25 ml	10 - 25	5	12	48
FG4980-50	50 ml	20 - 50	10	12	48
FG4980-100	100 ml	50 - 100	25	12	48
FG4980-125	125 ml	50 - 125	25	12	48
FG4980-150	150 ml	75 - 150	25	6	24
FG4980-250	250 ml	50 - 200	25	12	48
FG4980-500	500 ml	100 - 500	50	6	36
FG4980-1000	1000 ml	250 - 1000	50	6	24
FG4980-2000	2000 ml	600 - 2000	200	1	8
FG4980-3000	3000 ml	1000 - 3000	500	1	1
FG4980-5000	5000 ml	1500 - 5000	500	1	1

** Note: 10 ml flask is not graduated

ERLENMEYER FLASK, WIDE MOUTH

Item No.	Capacity (ml)	Approx. O.D. x Height (mm)	Quantity per pack	Quantity per case
FG5100-100	100 ml	70 x 110	12	48
FG5100-125	125 ml	70 x 110	12	48
FG5100-250	250 ml	85 x 130	12	48
FG5100-500	500 ml	105 x 180	6	36
FG5100-1000	1000 ml	130 x 210	6	24

CONICAL FLASK WITH SCREW CAP

Item No.	Capacity (ml)	Approx. O.D. x Height (mm)	Quantity per pack	Quantity per case
FG5021-100	100 ml	64 x 110	6	24
FG5021-150	150 ml	72 x 125	6	24
FG5021-250	250 ml	85 x 145	6	24
FG5021-500	500 ml	104 x 180	6	24
FG5021-1000	1000 ml	131 x 225	1	4

FLASKS, FILTERING, HEAVY WALL, BOLT NECK WITH TUBULATION

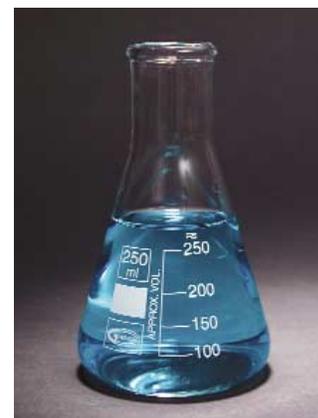
Item No.	Capacity (ml)	Quantity per pack	Quantity per case
FG5340-50	50 ml	6	24
FG5340-100	100 ml	6	24
FG5340-250	250 ml	1	18
FG5340-500	500 ml	1	18
FG5340-1000	1000 ml	1	12
FG5340-2000	2000 ml	1	12
FG5340-5000	5000 ml	1	1

GLASS FLASK SET



A convenient set of 5 borosilicate glass Erlenmeyer Flasks. Set consists of one each of 50ml, 125ml, 250ml, 500ml, and 1000ml Flasks. Shipping weight: 2.80 lbs., dimensions: 10.5" x 9.25" x 9.75".

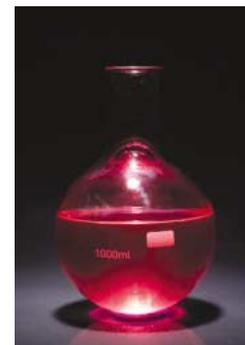
Item No.	Description
FGSET5	Glass Erlenmeyer Flasks, Set of 5



FG4980



FG5340



FG4260

FLAT BOTTOM BOILING FLASK

Item No.	Capacity (ml)	Approx. O.D. x Height (mm)	Quantity per pack	Quantity per case
FG4060-25	25 ml	42 x 90	6	24
FG4060-50	50 ml	51 x 90	6	24
FG4060-100	100 ml	64 x 105	6	24
FG4060-125	125 ml	70 x 120	6	24
FG4060-150	150 ml	75 x 132	6	24
FG4060-250	250 ml	85 x 140	6	24
FG4060-300	300 ml**	87 x 160	6	18
FG4060-500	500 ml	105 x 170	6	24
FG4060-1000	1000 ml	133 x 200	1	6
FG4060-2000	2000 ml	167 x 250	1	6
FG4060-3000	3000 ml	186 x 300	1	1

** suitable for use in Polenske Apparatus

Also available in 5000, 6000, 10000, and 20000 ml capacities.

Call for details.

ROUND BOTTOM BOILING FLASK

Item No.	Capacity (ml)	Approx. O.D. x Height (mm)	Quantity per pack	Quantity per case
FG4260-25	25 ml	42 x 90	6	24
FG4260-50	50 ml	51 x 95	6	24
FG4260-100	100 ml	64 x 110	6	24
FG4260-125	125 ml	70 x 125	6	24
FG4260-150	150 ml	75 x 137	6	24
FG4260-250	250 ml	85 x 145	6	24
FG4260-300	300 ml**	87 x 160	6	18
FG4260-500	500 ml	105 x 178	6	24
FG4260-1000	1000 ml	128 x 212	6	24
FG4260-2000	2000 ml	166 x 260	1	6
FG4260-3000	3000 ml	185 x 310	1	6

Also available in 5000, 6000, 10000, and 20000 ml capacities.

Call for details.



PIPETTES

Pipettes are manufactured from specially selected heavy-wall machine-drawn borosilicate accurate bore glass tubing. They have precision formed jets and bevel ground ends to resist chipping. The graduation marks are in durable white enamel or amber stain, both are resistant to normal laboratory agents and repeated washing. All the pipettes are individually measured and then marked. Accuracy is ensured between any two readings, because of uniformity of bore. The pipettes can be autoclaved and if necessary can be flamed for sterilization.

PIPETTES, MEASURING (MOHR TYPE), ACCURACY AS PER CLASS "B"

Item No.	Capacity (ml)	Graduation Interval (ml)	Quantity per pack	Quantity per case
PM7060-A	0.1 ml**	0.01	6	12
PM7060-B	0.2 ml**	0.01	6	12
PM7060-C	1.0 ml	0.01	6	12
PM7060-D	1.0 ml**	0.1	6	12
PM7060-E	2.0 ml	0.02	6	12
PM7060-F	2.0 ml**	0.1	6	12
PM7060-G	5.0 ml	0.05	6	12
PM7060-H	5.0 ml**	0.1	6	12
PM7060-I	10.0 ml	0.1	6	12
PM7060-J	25.0 ml	0.1	6	12

** Not covered by IS specifications.

PIPETTES, TRANSFER, VOLUMETRIC, ACCURACY AS PER CLASS "B"

Item No.	Capacity (ml)	Quantity per pack	Quantity per case
PT7102-A	1 ml	6	12
PT7102-B	2 ml	6	12
PT7102-C	5 ml	6	12
PT7102-D	10 ml	6	12
PT7102-E	20 ml	6	12
PT7102-F	25 ml	6	12
PT7102-G	50 ml	6	12
PT7102-H	100 ml	6	12

PIPETTES, SEROLOGICAL, ACCURACY AS PER CLASS "B"

Item No.	Capacity (ml)	Graduation Interval (ml)	Quantity per pack	Quantity per case
PS7080-A	0.1 ml	0.01	6	12
PS7080-B	0.2 ml	0.01	6	12
PS7080-C	1.0 ml	0.01	6	12
PS7080-D	1.0 ml	0.1	6	12
PS7080-E	2.0 ml	0.02	6	12
PS7080-F	2.0 ml	0.1	6	12
PS7080-G	5.0 ml	0.05	6	12
PS7080-H	5.0 ml	0.1	6	12
PS7080-I	10.0 ml	0.1	6	12
PS7080-J	25.0 ml	0.1	6	12



PM7060

PS7080

PT7102



LAB SUPPLIES - GLASSWARE

TRANSFER (VOLUMETRIC) PIPETTES, CLASS A

NEW

TRANSFER (VOLUMETRIC) PIPETTES, COLOR CODED, CLASS A, ASTM E-969, BATCH CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
123.450.01	1 ml ; +/-0.006 Tolerance - Blue	5	15
123.450.02	2 ml ; +/-0.010 Tolerance - Orange	5	15
123.450.03	5 ml ; +/-0.015 Tolerance - White	5	15
123.450.04	10 ml ; +/-0.020 Tolerance - Red	5	15
123.450.05	20 ml ; +/-0.030 Tolerance - Yellow	5	15
123.450.06	25 ml ; +/-0.030 Tolerance - Blue	5	15
123.450.07	50 ml ; +/-0.050 Tolerance - Red	5	15
123.450.08	100 ml ; +/-0.080 Tolerance - Yellow	5	15

TRANSFER (VOLUMETRIC) PIPETTES, COLOR CODED, CLASS A, ASTM E-969, SERIALIZED AND CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
123.454.01	1 ml ; +/-0.006 Tolerance - Blue	5	15
123.454.02	2 ml ; +/-0.010 Tolerance - Orange	5	15
123.454.03	5 ml ; +/-0.015 Tolerance - White	5	15
123.454.04	10 ml ; +/-0.020 Tolerance - Red	5	15
123.454.05	20 ml ; +/-0.030 Tolerance - Yellow	5	15
123.454.06	25 ml ; +/-0.030 Tolerance - Blue	5	15
123.454.07	50 ml ; +/-0.050 Tolerance - Red	5	15
123.454.08	100 ml ; +/-0.080 Tolerance - Yellow	5	15



Transfer Pipette



Measuring Pipette

NEW

MEASURING (MOHR) PIPETTES, CLASS A

MEASURING (MOHR) PIPETTES, COLOR CODED, CLASS A, ASTM E-1293, BATCH CERTIFIED

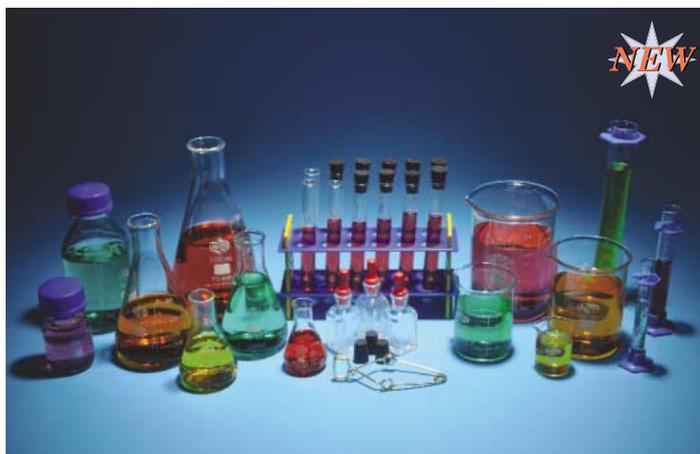
Item No.	Description	Quantity per pack	Quantity per case
123.453.01	1 ml x 0.10 Graduation - Yellow	5	15
123.453.02	2 ml x 0.10 Graduation - Black	5	15
123.453.03	5 ml x 0.10 Graduation - Red	5	15
123.453.04	10 ml x 0.10 Graduation - Orange	5	15
123.453.05	25 ml x 0.10 Graduation - White	5	15

MEASURING (MOHR) PIPETTES, COLOR CODED, CLASS A, ASTM E-1293, SERIALIZED AND CERTIFIED

Item No.	Description	Quantity per pack	Quantity per case
125.452.01	1 ml x 0.10 Graduation - Yellow	5	15
125.452.02	2 ml x 0.10 Graduation - Black	5	15
125.452.03	5 ml x 0.10 Graduation - Red	5	15
125.452.04	10 ml x 0.10 Graduation - Orange	5	15
125.452.05	25 ml x 0.10 Graduation - White	5	15



GENERAL LAB GLASSWARE STARTER KIT



A convenient glassware assortment designed for general laboratory use. A great value, and includes the following:

Contents:

- Beaker, Glass, Set of 51
- Beaker Tongs, 9"1
- Erlenmeyer Flasks, Set of 51
- Cylinder, 10 ml, Hex Base1
- Cylinder, 25 ml, Hex Base1
- Cylinder, 100 ml, Hex Base1
- Media Bottle, 100 ml1
- Media Bottle, 500 ml1
- Test Tube Rack (blue/yellow) with 12 Test Tubes (TT9800-F) and 12 Rubber Stoppers (RST1-S)1
- Test Tube Clamp, Steel Wire, with Grips1
- Glass Rod, 8", pk/121
- Dropping Bottle, 30 ml, Barnes, with Dropper Pipets . . .12

Shipping weight: 14 lbs., dimensions: 24" x 12" x 12".

Item No.	Description
GLSKIT3	General Lab Glassware Starter Kit

PETRI DISHES, GLASS NEW



Made from high quality borosilicate glass, these autoclavable, flat, clear Petri dishes can withstand repeated sterilization and can be used many times. Each dish includes a lid. Note: the lids do not seal air -tight.

Item No.	Description	Quantity per pack
G1060	Glass Petri Dish 60 x 65 x 15mm	10
G1075	Glass Petri Dish 75 x 82 x 15mm	10
G1100	Glass Petri Dish 100 x 107 x 20mm	10

VOLUMETRIC GLASSWARE STARTER KIT



A customized volumetric glassware assortment designed for general laboratory use. A great value, and includes the following:

Contents:

- Burettes, 50 ml Straight Bore, PTFE Stopcock1
- Cylinders, Double Scale, 50 ml1
- Cylinders, Double Scale, 100 ml1
- Flask, Filtering, 500 ml1
- Flask, Volumetric with Snap Cap, 50 ml1
- Flask, Volumetric with Snap Cap, 100 ml1
- Separatory Funnel, Conical, 500 ml1
- Pipettes, Measuring (Mohr Type), Class B, 10 ml Capacity x .10 ml Graduations, pk/61
- Pipettes, Transfer, Volumetric, 25 ml, pk/61

Shipping weight 7.5 lbs., dimensions 34" x 10" x 6"

Item No.	Description
GLSKIT4	Volumetric Glassware Starter Kit

GLASSWARE ASSORTMENT



Quality glassware assortment for use in general science, or chemistry laboratory. Kit includes following items, and is designed for use by 2-4 students. Shipped in a re-usable storage box. Shipping weight: 15 lbs., dimensions: 33" x 11.5" x 5.5".

- | | |
|---|---|
| Contents: | Mortar and Pestle, Porcelain1 |
| Beaker, Glass, 100 ml2 | Cylinder, Glass, 10 ml1 |
| Beaker, Glass, 250 ml1 | Cylinder, Glass, 25 ml1 |
| Beaker, Glass, 400 ml1 | Cylinder, Glass, 50 ml1 |
| Bottles, 4 oz. w/ Screw Caps2 | Cylinder, Glass, 100 ml1 |
| Burets, 50 ml, Mohr2 | Test Tubes, 13 x 100 mm6 |
| Crucible, Porcelain1 | Test Tubes, 18 x 150 mm6 |
| Crucible Cover, Porcelain1 | Test Tubes, 25 x 200 mm6 |
| Dropper, Pipet (Eye Dropper)1 | Glass Capillary Tubing4 |
| Dropping Bottle, 30 ml, Barnes . . .12 | Flask, Erlenmeyer, 250 ml1 |
| Evaporating Dish, Porcelain1 | Glass Rod, 8 inch1 |
| Funnel, Short Stem, 75 mm1 | Petri Dish, 100 mm2 |
| Watch Glass, 75 mm1 | Total Pieces57 |

Item No.	Description
GLSKIT1	Glassware Assortment



LAB SUPPLIES - GLASSWARE

Physical Properties of United Glassware

CHEMICAL COMPOSITION

- Our glassware is manufactured from low alkali Type 3.3 borosilicate glass. It is virtually free of magnesia-lime-zinc group and is completely free of arsenic and other heavy metals.

THERMAL PROPERTIES

- Our low expansion borosilicate glass can be used for applications up to 500°C. It can withstand higher temperatures and sudden changes in temperature/thermal shocks. Minute scratching of the surface can reduce its thermal resistance

CHEMICAL DURABILITY

- Our glassware is highly resistant to water, neutral and acid solutions, concentrated acids and their mixtures as well as to chlorine, bromine, iodine, and organic matters. During extended periods of reactions and at temperatures above 100°C, its chemical resistance exceeds that of most metals and other materials. It can withstand repeated sterilization.

OPTICAL PROPERTIES

- Our glassware shows no noticeable absorption in the visible region of the spectrum, thus is clear and colorless.

For additional information regarding thermal properties and chemical durability pertaining to your specific application, please contact us.

TEST TUBE BASKETS

These test tube baskets are made of polypropylene. These autoclavable, unbreakable and non-corrosive baskets are ideal for rinsing and draining glassware. They are also useful for storage of test tubes or culture tubes during sterilization or incubation.



Item No.	Description	Quantity per pack
78101	140x120x110mm	6
78102	160x160x160mm	6

TEST TUBES



TT9800

High-quality borosilicate glass test tubes.

TEST TUBES WITH RIM

Item No.	Dimensions (O.D. x Length)	Capacity	Quantity per pack	Quantity per case
TT9800-A	10 x 75 mm	4 ml	72	720
TT9800-B	12 x 75 mm	5 ml	72	720
TT9800-C	12 x 100 mm	8 ml	72	720
TT9800-D	15 x 125 mm	15 ml	72	720
TT9800-E	15 x 150 mm	17 ml	72	720
TT9800-L	16 x 100 mm	14 ml	72	720
TT9800-M	16 x 125 mm	16 ml	72	720
TT9800-F	18 x 150 mm	24 ml	72	720
TT9800-N	20 x 150 mm	36 ml	72	720
TT9800-G	25 x 100 mm	37 ml	72	720
TT9800-H	25 x 150 mm	60 ml	72	288
TT9800-I	25 x 200 mm	75 ml	48	192
TT9800-J	32 x 200 mm	125 ml	50	50
TT9800-K	38 x 200 mm	175 ml	50	50

TUBES, TEST WITHOUT RIM

Item No.	Dimensions (O.D. x Length)	Capacity	Quantity per pack	Quantity per case
TT9820-A	10 x 75 mm	4 ml	72	720
TT9820-B	12 x 75 mm	5 ml	72	720
TT9820-C	12 x 100 mm	8 ml	72	720
TT9820-D	15 x 125 mm	15 ml	72	720
TT9820-E	15 x 150 mm	17 ml	72	720
TT9820-F	16 x 100 mm	14 ml	72	720
TT9820-G	18 x 150 mm	24 ml	72	720
TT9820-H	25 x 100 mm	37 ml	72	720
TT9820-I	25 x 150 mm	60 ml	72	288
TT9820-J	25 x 200 mm	75 ml	48	192
TT9820-K	32 x 200 mm	125 ml	50	50
TT9820-L	38 x 200 mm	175 ml	50	50

Please see our offering of Test Tube Racks and Test Tube Brushes on page 99.



SEMI-AUTOCLAVABLE MICROPIPETTES

Our Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. They are offered in nine volume ranges, as detailed below. They work on a click stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. Manufactured in an ISO 9001:2008 certified facility, these pipettes are highly accurate. Each pipette is individually calibrated according to ISO 8655 standards. A calibration certificate is provided with each pipette.



FIXED VOLUME SEMI-AUTOCLAVABLE MICROPIPETTES

With Autoclavable tip cone, these Fixed volume micropipettes are available in a wide range of capacities from 0.5 µl to 10000 µl (10 ml) and are low cost with very high accuracy. Ideal for clinical diagnostics, routine tests, control analysis, etc.

Item No.	Volume (µl)	Accuracy (± %)	Precision (± %)	Compatible Tips
PFV-05	5	1.5	0.8	20µl
PFV-10	10	1.0	0.5	200µl
PFV-20	20	0.5	0.3	200µl
PFV-25	25	0.3	0.3	200µl
PFV-100	100	0.3	0.3	200µl
PFV-200	200	0.3	0.2	200µl
PFV-1000	1000 (1 ml)	0.3	0.2	1000µl
PFV-5000	5000 (5 ml)	0.3	0.2	5ml
PFV-10000	10000 (10 ml)	0.3	0.2	10ml

Contact us for information regarding private labeling.

VARIABLE VOLUME SEMI-AUTOCLAVABLE MICROPIPETTES

Item No.	Volume Range	Increment	Volume (µl)	Accuracy (± %)	Precision (≤ %)	Compatible Tips
PVV-2	0.2 – 2.0µl	0.01	0.2	12.0	6.0	20µl
			1.0	2.5	1.5	
			2.0	1.5	0.7	
PVV-10	0.5-10µl	0.1	0.5	5.0	2.8	200µl
			5.0	1.5	0.8	
			10.0	1.0	0.4	
PVV-20	2-20µl	0.1	2.0	5.0	1.5	200µl
			10.0	1.0	0.6	
			20.0	1.0	0.3	
PVV-50	5-50µl	1.0	5.0	2.5	1.5	200µl
			25.0	0.7	0.3	
			50.0	0.7	0.3	
PVV-100	10-100µl	1.0	10.0	2.5	0.7	200µl
			50.0	0.8	0.3	
			100.0	0.8	0.15	
PVV-200	20-200µl	1.0	20.0	2.5	0.7	200µl
			100.0	1.0	0.3	
			200.0	0.6	0.2	
PVV-1000	100-1000µl	10.0	100.0	1.6	0.3	1000µl
			500.0	0.6	0.2	
			1000.0	0.5	0.2	
PVV-5000	0.5-5ml	100.0	500.0	1.5	0.3	5ml
			2500.0	0.6	0.2	
			5000.0	0.6	0.2	
PVV-10000	2-10ml	100.0	1000.0	1.5	0.3	10ml
			5000.0	0.6	0.2	
			10000.0	0.6	0.2	



LAB SUPPLIES - LIQUID HANDLING

BOTTLE TOP DISPENSERS NEW

These new Bottle Top Dispensers are priced significantly better than virtually anything of its type. The dispensers feature a 30mm thread and come complete with five additional adapters (sizes 28mm, 32mm, 36mm, 40mm and 45mm) allowing customers to use them right out of the box. They are fully autoclavable and work with most laboratory bottles. The accuracy of these dispensers is exceptional and offers the best value in the industry. All wetted parts made from PTFE and borosilicate glass for maximum chemical resistance. Sets include a borosilicate glass media bottle.

Sets with plastic narrow-mouth bottles are available upon request. Please call for details.

Item No.	Volume range	Increment	Accuracy		CV		Bottle size
			(± %)	± ml	(± %)	± ml	
BTDR-1	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005	
BTDR-2	0.5-5 ml	0.1 ml	0.5	0.025	0.1	0.005	
BTDR-3	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010	
BTDR-4	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030	
BTDR-5	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060	
BTDR1-SET	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005	100 ml
BTDR2-SET	0.5-5 ml	0.1 ml	0.5	0.025	0.1	0.005	100 ml
BTDR3-SET	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010	250 ml
BTDR4-SET	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030	500 ml
BTDR5-SET	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060	1000 ml
BTDR6-SET	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060	2000 ml



MINI PIPETTES



These mini pipettes include a two step plunger that facilitates super blow-out from the tip (last drop dispensing), resulting in very high accuracy and precision. This allows the "Li'lPet" to be used for reverse pipetting and repetitive pipetting. The tip cone of "Li'lPet" (5µl, 10µl, 20µl) is designed to accept both regular 200µl tips or ultra micro 20µl tips. These pipettes provide an optimum length of 125mm for user comfort during pipetting, and are fully autoclavable at 121°C and 15psi. Plungers are color coded for different volumes for easy identification in the lab. Each pipette is individually calibrated per DIN 12650 standards. Also, the pipettes are manufactured in an ISO 9002 certified facility - calibration certificates for specific batches are available upon request.

Item No.	Description	Accuracy (%)	C.V (%)
PMP005	5 µl	1.5	1.0
PMP010	10 µl	1.0	1.0
PMP020	20 µl	0.5	0.5
PMP025	25 µl	0.5	0.5
PMP050	50 µl	0.4	0.3
PMP100	100 µl	0.3	0.3
PMP200	200 µl	0.5	0.5
PMP250	250 µl	0.5	0.5
PMP500	500 µl	0.5	0.5
PMP1000	1000 µl	0.5	0.5

PIPETTE STARTER KIT NEW



This custom kit contains three pipettes, plus accessories, at an economical price. The kit includes:

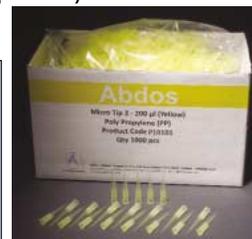
- PVV-20 Variable Volume Micropipette, 2-20 µl
- PVV-200 Variable Volume Micropipette, 20-200 µl
- PVV-1000 Variable Volume Micropipette, 100-1000 µl
- T200UL-Y, Replacement Micropipette Tips, 200 µl, pk/1000
- T1000UL-B, Replacement Micropipette Tips, 1000 µl, pk/500
- A guide to pipetting

Item No.	Description
PVVKIT	Pipette Starter Kit

REPLACEMENT TIPS

We recommend using the following tips to assure optimal compatibility with United pipettes.

United tips are compatible with several leading brands of pipettes. Please call for details.



Item No.	Tip Size (µl)	Description / Color	Quantity per pack
T 20UL-N	20 µl	NATURAL	1,000
T 200UL -Y	200 µl	YELLOW	1,000
T 1000UL-B	1000 µl	BLUE	500
T 5ML-N	5 ml	NATURAL	500
T 10ML-N	10 ml	NATURAL	400



PIPETTE FILLING DEVICE



This device is an efficient and reliable electronic pipette filling instrument. It is designed for ease and comfort to suit various types of liquid handling needs in laboratories. Features include LED charging indicators, adjustable pump speed, comfort grip and multiple housing color combinations. Also, a universal Silicon collet is provided to accept all standard pipettes up to 100 ml. Internal knurlings on the collet hold the pipette firmly. An in-line membrane filter (0.2 micron filter included) prevents aerosol contamination and prevents liquid from entering the equipment by accident. Ni-MH 3.6V batteries are used in combination with a low power consumption circuit and vacuum/pressure pump. This allows for eight hours of continuous operation. Each device includes a battery charger.

Item No.	Description
MPF-CY-110V	Cream body/yellow collet and plungers
MPF-CR-110V	Cream body/red collet and plungers
MPF-CV-110V	Cream body/violet collet and plungers
Replacement Filters:	
MPF-20-pk/5	Replacement filters 0.2 µm
MPF-45-pk/5	Replacement filters 0.45 µm

PIPETTE PUMPS

Good quality pipettors designed for easy and precise pipetting. Pumps feature a lever for quick release, and forward or backward wheel movement. The soft elastic chuck has a threaded collar to tightly grip glass or plastic pipettes. Easy to clean.



Item No.	Capacity	Color	Quantity per pack
PPMP02	2 ml	Blue	12
PPMP10	10 ml	Green	12
PPMP25	25 ml	Red	12

PIPETTE STANDS

PIPETTE STAND (94 PIPETTES - ROTARY)

Molded in polypropylene, this stand holds a maximum of 94 pipettes and rotates on central vertical axis for convenient selection of any particular pipette. Central vertical axis measures 19" in height. The lower rotating disc has four concentric troughs with tapered sides and open bottoms which cradle the pipette tips protectively and permit water drops to run off. This lower rotating disc measures 9" in diameter. The upper disc has a grid pattern concentric with the bottom disc to hold the pipettes vertically straight. Liquids draining off the pipettes are retained on the top of the stationary base by the outer ring. This stand can be easily disassembled and reassembled.



Item No.	Description	Quantity per pack
79103	Pipette Stand (Rotary)	1

PIPETTE STAND (VERTICAL)

This is a polypropylene, stable, non-corrosive, detachable stand which can hold 28 pipettes with maximum diameter of 9/16". The heavy base measures 9" in diameter and a polypropylene coated square rod measuring 15" in length is screwed into the base. The top disc has holes for holding the pipettes while the lower one has pilot holes where the pipette tips rest and liquids drain down to the base. Both discs can be moved up and down the rod to accommodate various lengths of pipettes. The arrows provided on the discs should be kept parallel to ensure that corresponding holes are being centered.



Item No.	Description	Quantity per pack
79102	Pipette Stand (Vertical)	1

PIPETTE STAND (HORIZONTAL)

This detachable stand can hold 12 pipettes, 6 on each side, in a horizontal position. Molded in polypropylene, this autoclavable stand has two sides which are attached to each other with three metallic rods coated with polypropylene. This stand can be easily disassembled for space saving storage.



Item No.	Description	Quantity per pack
79101	Pipette Stand (Horizontal)	6



LAB SUPPLIES - CLAMPS

UNIVERSAL CLAMP WITH HOLDER



Clamp features vinyl coated three pronged jaws that open up to 2-1/4" wide. Includes fiberglass sleeves and a clamp holder that can be rotated 360°.

Item No.	Description
ECBH01	Universal Clamp with Clamp Holder

BURETTE CLAMPS



This clamp features plastic covered spring jaws, accepts burets up to 35mm OD, and support rods up to 1/2 inch OD.

Item No.	Description
CLBUR1N	Burette Clamp, single (not pictured)
CLBUR2N	Burette Clamp, double

BURETTE CLAMP (FISHER STYLE)

These clamps are molded in polypropylene making them completely corrosion-proof. The spring loaded jack in the middle provides a vice like grip to the burette and prevents it from slipping. Two tapered wedges are provided to ensure firm grip on rods having diameter 1/2" or 3/8".



Item No.	Description	Quantity per pack
45101	Single Fisher Clamp	12
45102	Double Fisher Clamp	6

LINCOLN-TYPE BURETTE CLAMP

This zinc plated stamped steel burette clamp has a steel thumbscrew and can be used with rods up to 3/4" in diameter. The distance between the two burettes is 7-1/4" (18.4cm).



Item No.	Description
CLLB02	Lincoln-Type Burette Clamp

BURETTE CLAMPS



Excellent for holding small objects. The jaws open from 15mm to 45mm (1/2" to 1 3/4"). The clamp attaches to rods up to 13mm (1/2") O.D. Jaws can be rotated and locked at any angle.

Item No.	Description
COBR3-U	Burette Clamp, Uncoated Jaws
COBR3-FR	Burette Clamp, Coated Jaws

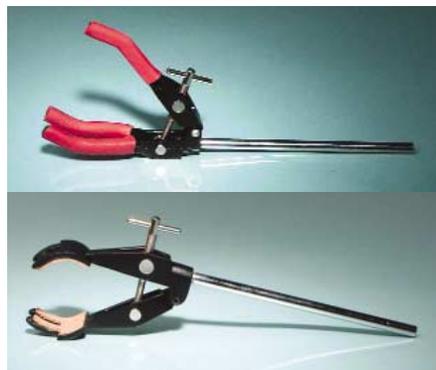
HOOK COLLAR CLAMPS

For suspending pulleys, balances, etc. from support rods, or cross members.



Item No.	Description
HKCL01	For 1/2" Dia. Rods
HKCL02	For 3/4" Dia. Rods

EXTENSION CLAMPS



Top – ECLJ03 3-pronged clamp, 10" long, prongs covered with rubber tubing
 Bottom – CLEX01 Extension clamp with cork covered jaws, 8" total length

Item No.	Description
ECLJ03	3-Prong Clamp with Steel rod
CLEX01	Extension Clamp with Steel rod
ECAL03	3 Prong Clamp with Aluminum rod (not shown)

PENDULUM CLAMP

Connect this clamp to any support rod to set up three separate pendulum demonstrations. Includes individual cord clamps.



Item No.	Description
CLPEN1	Pendulum Clamp



3-PRONG EXTENSION CLAMPS *NEW*



Our deluxe line of 3 prong extension clamps are constructed of pressure die casted zinc alloy and are chrome plated. Clamps open to about 3", have a recommended maximum grip size of about 2.25", and feature double keyed spring-type adjustment screws. Available with an extension rod 8.25" long, 5/16" OD, with an overall length of 12.75", or with a boss head clamp that can swing freely and is lockable at any angle up to 360°, and can be used with rods up to 19mm. Recommended maximum working temperature is 80°C for the PVC version, and 280°C for the silicone sleeve version.

Item No.	Description
ECPVC1	3-prong Extension Clamp with Rod, PVC coated grips
ECSIL1	3-prong Extension Clamp with Rod, silicone coated grips
ECPVC2	3-prong Extension Clamp with Boss Head, PVC coated grips
ECSIL2	3-prong Extension Clamp with Boss Head, silicone coated grips

DELUXE BURETTE CLAMPS *NEW*



Deluxe Burette clamps are die casted from aluminum and feature black rubber sleeves for firm gripping of burettes. The adjustable clamps hold up to 30mm OD burettes which are held in place by the pressure created by the springs. For use with rods up to 19mm diameter.

Item No.	Description
CLBURDS	Single Burette Clamp
CLBURDD	Double Burette Clamp

SUSPENSION CLAMPS

Thermometer Clamp features adjustable 360 degree rotating jaw, for attaching up to 1/2" diameter rods and thermometers.



Clamp with Hook can be rotated and locked in any position. Ideal for supporting suspended thermometers, drying tubes, etc.



Item No.	Description
THCL01	Thermometer Clamp
CLHK01	Clamp With Hook

2-PRONG BURETTE CLAMPS *NEW*



Our deluxe line of two prong burette clamps are made of pressure die casted zinc alloy and are chrome plated. Adjustable to hold up to 60mm OD burettes, these clamps feature a spring-type adjustment key. Available with an extension rod 8.25" long, 5/16" OD, with an overall length of 12.75", or with a boss head clamp that can swing freely and is lockable at any angle up to 360°, and can be used with rods up to 19mm. Recommended maximum working temperature is 60°C for the cork lined version, 80°C for the PVC version, and 280°C for the silicone sleeve version.

Item No.	Description
CLCORK1	2-prong Burette Clamp, with Rod, cork lining
CLPVC1	2-prong Burette Clamp, with Rod, PVC sleeves
CLSIL1	2-prong Burette Clamp, with Rod, silicone sleeves
CLCORK2	2-prong Burette Clamp, with Boss Head, cork lining
CLPVC2	2-prong Burette Clamp, with Boss Head, PVC sleeves
CLSIL2	2-prong Burette Clamp, with Boss Head, silicone sleeves

WOODEN TEST TUBE CLAMP *NEW*



This test tube clamp is 18cm (approx. 7") in length and will accommodate test tubes from 12 to 25mm in diameter. Shipping weight: 0.8 Lbs., dimensions: 8.5" x 5" x 2.5".

Item No.	Description	Quantity per pack
TTCW01	Wooden Test Tube Clamp	12

TEST TUBE CLAMPS

Self-closing, available in Brass Wire, or Brass Finish.



Item No.	Description
TTCL01	Brass Wire, With Finger Grips
TTCL02	Brass Wire, W/O Finger Grips
TTCL03	Steel Wire, Brass Finish, With Finger Grips
TTCL04	Steel Wire, Brass Finish, W/O Finger Grips

SWIVEL CLAMP

Chrome plated steel double clamp. Accepts rods up to 3/4" diameter (19 mm). One clamp can be rotated 360° about long axis and clamped in any position.



Length across clamps is 4.5".

Item No.	Description
CLMS01	Swivel Clamp



CLAMP HOLDERS

For rods to 19mm in diameter.

Cast Iron Clamp Holder



Cast Zinc Clamp Holder



Brass Body Clamp Holder

Item No.	Description
RCLBH1	Cast Iron, Brass Thumb Screws
RCLBH2	Brass Body, Brass Thumb Screws
RCLBH3	Cast Zinc, Brass Thumb Screws

WIRE TUBING CLAMPS



Mohr's Pinchcock Clamp

Screw Compressor Clamp

MOHR'S PINCHCOCK CLAMPS

Made of steel wire, nickel plated.

Item No.	For Tubing Diameter
CLMP01	10mm
CLMP02	13mm
CLMP03	16mm

SCREW COMPRESSOR CLAMPS

Item No.	Type	Opens To
HSCOP1	open	3/4"
HSCOP2	open	1"
HSCCL1	closed	3/4"
HSCCL2	closed	1"

C-CLAMPS

Our clamps feature strong malleable iron frames that are painted to reduce corrosion.



Item No.	Description
CLMPC2	C-Clamp, 2" jaw opening
CLMPC3	C-Clamp, 3" jaw opening
CLMPC4	C-Clamp, 4" jaw opening
CLMPC5	C-Clamp, 5" jaw opening
CLMPC6	C-Clamp, 6" jaw opening

LABORATORY JACK



LBJK01



LBJSET

Strong, excellent quality laboratory support jack, made of aluminum and stainless steel. Vertical height to 26cm; 15x12cm top and base plates. Also available with removable 20x20cm platform, and 45cm long support rod.

Item No.	Description
LBJK01	Laboratory Jack
LBJSET	Laboratory Jack with removable platform and support rod

TWO-WAY BURNER STAND

This stand is ideal for use with alcohol burners. The base is made from 3/16" stainless steel rod with a plated steel mesh top. The stand can be used in either high (5") or 4" position.



Item No.	Description
ABHL01	Two-Way Burner Stand

ALCOHOL BURNER STAND

Made of steel wire, zinc plated. Stand has a heavy wire gauze top. Overall height is 5", to accommodate all sizes of burners. Also available with a ceramic center on wire gauze top.



Item No.	Description
ABSP05	Alcohol Burner Stand
ABSC05	Alcohol Burner Stand, With Ceramic Center



CRUCIBLES



PORCELAIN CRUCIBLES

Very good, quality porcelain crucibles, made to withstand temperatures up to 1150°C. Glazed inside and out, except for outside bottom surface. Lids included.

LOW-WIDE FORM PORCELAIN CRUCIBLES

Item No.	Capacity	Dimensions (Top diameter x height)
PCL015	15ml	45mm / 25mm
PCL025	25ml	52mm / 35mm
PCL050	50ml	61mm / 37mm



HIGH FORM PORCELAIN CRUCIBLES

Item No.	Capacity	Dimensions (mm) (Top diameter x height)
PCH015	15ml	35mm / 30mm
PCH025	25ml	43mm / 37mm
PCH050	50ml	50mm / 50mm

PORCELAIN CASSEROLES

With lip, and porcelain handles. Casseroles are glazed inside and out.



Item No.	Description	Capacity
PCS050	Porcelain Casserole, 50 mm diameter	30 ml
PCS070	Porcelain Casserole, 70 mm diameter	80 ml
PCS090	Porcelain Casserole, 90 mm diameter	175 ml
PCS100	Porcelain Casserole, 100 mm diameter	220 ml

BUCHNER FUNNELS



Good quality glazed porcelain. Acid and alkali resistant.

Item No.	Diameter	Capacity
PBF050	50mm	50 ml
PBF070	70mm	120 ml
PBF090	90mm	200 ml
PBF110	110mm	400 ml
PBF150	150mm	650 ml
PBF200	200mm	900 ml
PBF250	250mm	1200 ml



STEEL CRUCIBLES

Unibody construction with one piece of steel, polished inside and out. Lids included.

Item No.	Capacity	Dimensions (Top diameter x height)
SCR015	15 ml	45mm / 30mm
SCR020	20 ml	60mm / 35mm
SCR025	25 ml	45mm / 40mm
SCR030	30 ml	60mm / 40mm
SCR050	50 ml	65mm / 50mm
SCR100	100 ml	80mm / 50mm

STAINLESS STEEL CRUCIBLES

Unibody construction with one piece of stainless steel. Lids included.



Item No.	Capacity	Dimensions (Top diameter x height)
SSR015	15 ml	45mm / 30mm
SSR020	20 ml	60mm / 33mm
SSR025	25 ml	60mm / 35mm
SSR030	30 ml	60mm / 40mm
SSR050	50 ml	100mm / 45mm
SSR100	100 ml	125mm / 45mm



NICKEL CRUCIBLES

Unibody construction with one piece of sheet nickel, polished inside and out. Lids included.

Item No.	Capacity	Dimensions (Top diameter x height)
NCR015	15ml	45mm / 30mm
NCR025	25ml	65mm / 37mm
NCR050	50ml	65mm / 50mm
NCR100	100ml	70mm / 60mm

Agate Mortar and Pestles are also available. Call for details.



WIRE GAUZE



Iron wire gauze (24 SWG/10 Mesh) with ceramic coating at the center. Contains no asbestos. Sold as packs of 10.

WIRE GAUZE WITH CERAMIC CENTER

Item No.	Size (inches)
WGCC44	4" x 4"
WGCC55	5" x 5"
WGCC66	6" x 6"

WIRE GAUZE - PLAIN

Item No.	Size (inches)
WGPL44	4" x 4"
WGPL55	5" x 5"
WGPL66	6" x 6"

CLAY PIPE TRIANGLES

Quality clay pipe on heavy gauge galvanized steel wire. Individually packed in poly bags, and chip board boxes.



Item No.	Size
CPT015	1.5" Side Length
CPT020	2.0" Side Length
CPT025	2.5" Side Length
CPT030	3.0" Side Length

EVAPORATING DISHES



These glazed evaporating dishes can withstand temperatures up to 1050°C. Each dish is individually packed.

Item No.	Diameter	Capacity
PED 035	60mm	35ml
PED 050	70mm	50ml
PED 075	82mm	75ml
PED 100	90mm	100ml
PED 125	98mm	125ml

PORCELAINWARE STARTER KIT NEW



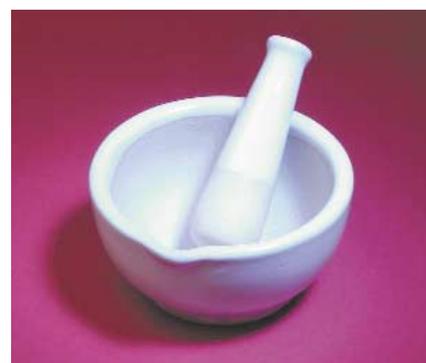
A customized kit that includes our top-selling porcelain products. A great value, which includes the following:

- Contents:
- Crucible, Porcelain, Low Form, 50 ml 1
 - Crucible, Porcelain, High Form, 50 ml 1
 - Casserole, Porcelain, 220 ml capacity 1
 - Mortar and Pestle, 125mm I.D., 500 ml capacity 1
 - Evaporating Dish, 82 mm diameter, 75 ml capacity 1
 - Clay Pipe Triangle, 2" 1
 - Crucible Tongs, Nickel Plated, Steel, 9" 1

Shipping weight 5.5 lbs., dimensions 12" x 10" x 6"

Item No.	Description
PORTKIT1	Porcelainware Starter Kit

PORCELAIN MORTAR AND PESTLE



Mortars have pouring spout, are glazed outside only, with porcelain pestles glazed to grinding surface.

Item No.	I.D. (mm)	Capacity (ml)
PPM060	60	80
PPM075	75	125
PPM100	100	300
PPM125	125	500



SUPPORT STANDS WITH RODS

SUPPORT STANDS WITH RODS

Stamped steel bases, with black enamel finish. Removable, zinc plated steel rods. Bases and Rods are also available individually.

Item No.	Base Size	Rod Length / Diameter
SSB4X6	4" X 6"	18" / 5/16"
SSB5X8	5" X 8"	20" / 3/8"
SSB6X9	6" X 9"	24" / 1/2"
SSB6X1	6" X 11"	36" / 1/2"

HEAVY SUPPORT STANDS WITH RODS

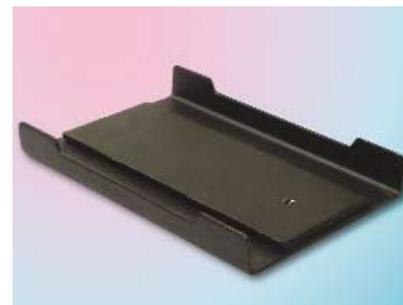
These stamped steel bases feature an added steel plate on the back, which makes them about 50% heavier than regular stamped steel bases. The steel plate also facilitates a sturdier threading of the rod into the base.

Item No.	Base Size	Rod Length / Diameter
SSB4X6-H	4" X 6"	18" / 5/16"
SSB5X8-H	5" X 8"	20" / 3/8"
SSB6X9-H	6" X 9"	24" / 1/2"
SSB6X1-H	6" X 11"	36" / 1/2"



Support Stand with Rod

Support stands and rings are available in additional custom sizes per your specifications. Please call for details.



Heavy Support Stand

SUPPORT STANDS - CAST IRON

Heavy cast iron bases with black enamel finish. Each base includes a removable zinc plated steel rod.



Item No.	Base Size	Rod Length / Diameter
SSB4X6-CI	4" x 6"	18" / 5/16"
SSB5X8-CI	5" x 8"	20" / 3/8"
SSB6X9-CI	6" x 9"	24" / 1/2"
SSB6X1-CI	6" x 11"	36" / 1/2"

TRIANGULAR SUPPORTS WITH RODS

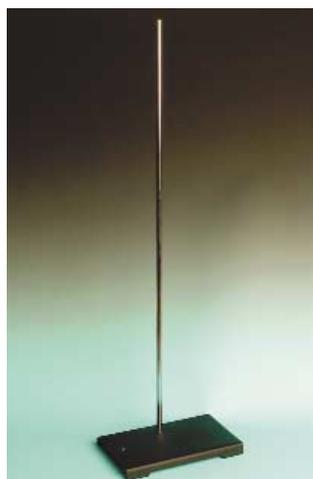
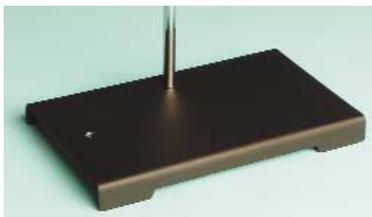
Heavy cast-iron triangular bases, with black enamel finish, with zinc plated steel rods.



Item No.	Base Size	Rod Length / Diameter
TSR318	3"	18" / 5/16"
TSR420	4"	20" / 3/8"
TSR524	5"	24" / 1/2"
TSR636	6"	36" / 1/2"

TWO-HOLE SUPPORT STANDS

Stamped steel bases featuring 2 tapped holes for the rods. Hole at center of the shorter side is for standard ring stand use. Hole at center of the longer side is for titrations, specific gravity determinations, etc. Zinc plated steel rods are included.



Item No.	Base Size	Rod Length / Diameter
SSB4X6-H2	4" x 6"	18" / 5/16"
SSB5X8-H2	5" x 8"	20" / 3/8"
SSB6X9-H2	6" x 9"	24" / 1/2"
SSB6X1-H2	6" x 11"	36" / 1/2"

SUPPORT STANDS, PLASTIC

These non-corrosive, molded support stands provide excellent alternatives to metal ones. Even the metallic rod has a polypropylene covering making it non-corrosive. Each support base comes with a 0.5" diameter 30" long rod.



Item No.	Description	Quantity per pack
54101	9" x 6" - side hole	1
54102	12" x 8" - center hole	1
54103	12" x 8" - side hole	1



LAB SUPPLIES - SUPPORT STANDS

SUPPORT STANDS AND RINGS

SUPPORT STANDS WITH RINGS

Each set contains a stamped steel base and rod, along with 2, 3, 4, or 5 cast iron rings with clamps.

Sets are shipped in specially designed boxes, with your item number labeled on each box.

Item No.	Base	Ring Size	Shipping Weight	Shipping Dimensions
SET462	4" x 6"	3", 4"	3.0 lb	22" x 7" x 2"
SET583	5" x 8"	3", 4", 5"	4.75 lb	22" x 7" x 2"
SET694	6" x 9"	3", 4", 5", 6"	6.75 lb	38" x 7" x 2"
SET615	6" x 11"	2", 3", 4", 5", 6"	8.75 lb	38" x 7" x 2"

SUPPORT RINGS, STEEL ROD

Item No.	Description	Quantity per pack
SRSR02	2" Diameter	5
SRSR03	3" Diameter	5
SRSR04	4" Diameter	5
SRSR05	5" Diameter	5
SRSR06	6" Diameter	5
SRSR07	7" Diameter	5

SUPPORT RINGS, CAST IRON

Item No.	Description	Quantity per pack
SRCIO2	2" Diameter	5
SRCIO3	3" Diameter	5
SRCIO4	4" Diameter	5
SRCIO5	5" Diameter	5
SRCIO6	6" Diameter	5
SRCIO7	7" Diameter	5

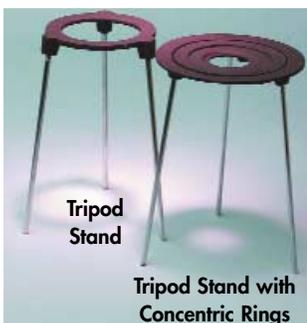
EXTENSION SUPPORT RINGS

Zinc plated STEEL extension rings. Rod diameter is 5/16", overall length is 12".

Item No.	Ring Diameter	Quantity per pack
SRSE02	2"	1
SRSE03	3"	1
SRSE04	4"	1
SRSE05	5"	1
SRSE06	6"	1

TRIPOD STANDS

Cast Iron ring with black enamel finish. Detachable zinc plated legs. Legs are interchangeable. Tripod Stands can be ordered in any combination of Ring OD, and height.



Tripod Stand

Tripod Stand with Concentric Rings

TRIPOD STANDS

Item No.	Ring O.D.	Height
TRS3X6	3.5"	6"
TRS3X9	3.5"	9"
TRS5X8-S	4.25"	9"
TRS5X8	5"	8"
TRS6X9	6"	9"

TRIPOD STANDS WITH CONCENTRIC RINGS

Item No.	Ring O.D.	Height
TCR6X9	3.5", 4.75", 6.5"	9"
TCR8X9	3.5", 4.75", 6.5", 8"	9"

Support Stand with Rings



Support Rings, Cast Iron



Support Rings, Steel Rod



Extension Support Rings

A-BASE AND ROD



The A-shaped base is made of rugged, cast iron for extra stability. It has 22 cm long legs and features a baked-on black chemical resistant finish. The rod is zinc plated steel, 61 cm long and 12 mm in diameter.

Shipping weight: 4 lbs., dimensions: 24" x 9" x 2".

Item No.	Description
SBA724	Rod and A-Base



TEST TUBE RACKS



TTHW01



TTHW04



TTHW03

WOODEN TEST TUBE RACKS

Solid hardwood construction. All racks are polished to minimize damage to surface from spills.

Item No.	Description
TTHW01	Six 25mm Holes, 6 Drying Pins, With a 1/2" Thick Base
TTHW03	12-tube wooden rack, 1-tier, 25mm holes, 12 drying pins
TTHW04	13-tube wooden rack, 2-tier, 6 drying pins



Round Rack



Cube Rack

ROUND TEST TUBE RACK, PLASTIC

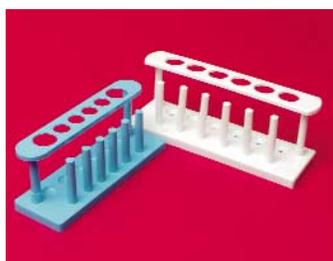
Good quality round test tube rack will hold 24 tubes up to 20mm in diameter. Solid hi-impact plastic construction. Rack is 145mm in diameter, and 70mm high, and features a perforated bottom. Shipped preassembled.

Item No.	Description
TTHP05	Test Tube Rack, 24-tube round plastic

CUBE TEST TUBE RACK, PLASTIC

A very sturdy one-piece molded polypropylene rack. All four sides can be used interchangeably for 12mm through 25mm diameter tubes. Rack features a total of 88 spaces on its four sides. Shipping weight: 0.75 lbs., dimensions: 8" x 4" x 4.5".

Item No.	Description
76001	Cube Test Tube Rack, Plastic



TTHP01



TTHP02

TTHP03

IN-LINE TEST TUBE RACKS - POLYETHYLENE

These polyethylene racks will hold six test tubes, and also have six drying pins. Sides are fully open for clear viewing.

Item No.	Description
TTHP01	Two 30mm, and four 20 mm holes. Pre-assembled
TTHP02	Six 25mm Holes. Needs assembly

PLASTIC TEST TUBE RACK

Sturdy polypropylene plastic rack will hold 12 test tubes up to 25 mm in diameter. Easy to assemble, and chemical resistant. Dimensions: 9" x 3" x 1".

Item No.	Description
TTHP03	12 tube plastic rack, 25mm holes. Needs assembly



Test Tube Rack, Round

TEST TUBE RACK, ROUND

This circular 12 place Polypropylene test tube stand has four 25mm dia holes and eight 19mm dia holes. The base has matching wells and 16 drying pins surrounded by a trough to catch drippings.

Item No.	Description
77704	Test Tube Rack, Round. Pre-assembled

TEST TUBE RACK (3 TIER)

Polypropylene rack with a 3-tier design provides a clear view of the tube contents and convenient insertion and removal of tubes. These autoclavable racks can withstand sub-freezing temperatures.



Item No.	Description	Quantity per pack
77706	13mm x 31 tubes	2
77707	16mm x 31 tubes	2
77708	20mm x 20 tubes	2
77709	25mm x 12 tubes	2
77710	25mm x 18 tubes	2
77711	32mm x 12 tubes	2
77712	25mm x 36 tubes	2
77714	13mm x 18 tubes	4
77715	15mm x 18 tubes	4
77716	18mm x 12 tubes	4
77717	13mm x 62 tubes	2
77718	16mm x 62 tubes	2
77719	20mm x 40 tubes	2



LAB SUPPLIES - RACKS

TEST TUBE BRUSHES



Good quality nylon or natural bristles, mounted in twisted heavy gauge galvanized wire. All brushes feature a radial top.

TEST TUBE BRUSHES WITH NYLON BRISTLES

Item No.	Brush Length	Brush Diameter	Overall Length	Quantity per pack
TTBRB1	3"	1/2"	8"	12
TTBRB2	3"	3/4"	8"	12
TTBRB3	3"	1"	9"	12
TTBRB4	4"	1 1/2"	11"	12

TEST TUBE BRUSHES WITH NATURAL BRISTLES

Item No.	Brush Length	Brush Diameter	Overall Length	Quantity per pack
TTBNO1	3"	1/2"	8"	12
TTBNO2	3"	3/4"	8"	12
TTBNO3	3"	1"	9"	12
TTBNO4	4"	1 1/2"	11"	12

BURETTE BRUSH WITH NYLON BRISTLES

Item No.	Brush Length	Brush Diameter	Overall Length	Quantity per pack
BUBRO1	10"	1/2"	28"	1

BEAKER BRUSH WITH NATURAL BLACK BRISTLES

Item No.	Brush Length	Brush Diameter	Overall Length	Quantity per pack
BBRO16	6"	3"	16"	1

TEST TUBE RACK SETS

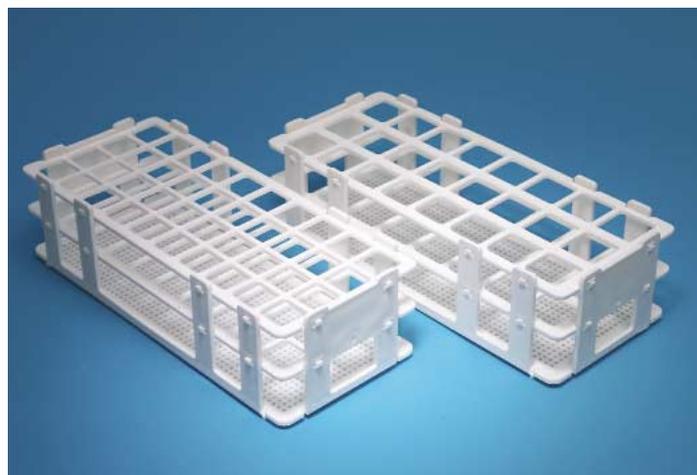
This set contains twelve 15ml screw top graduated plastic tubes and a brightly colored two tiered test tube stand.

Also available as a set with twelve 24ml glass test tubes with rubber stoppers.



Item No.	Description
TTRSET-P	Test Tube Rack with 15ml Plastic Tubes
TTRSET	Test Tube Rack with 24ml Glass Tubes and Rubber Stoppers

PLASTIC TEST TUBE RACKS, WET/DRY



Economical yet very durable racks that are submersible, autoclavable, and easily stack when empty. Made from a special blend of polypropylene (PP) that makes them sink in a water bath and maintain their stability even in agitated water. The top tier features an alphanumeric grid reference. Available in white, in packs of 6. Can be special ordered in various colors.

Shipping weight (for pack of 6): 2.0 lbs., package dimensions: 15" x 10" x 2".

Item No.	For tubes up to (mm) / No. of places	Quantity per pack
77901	13mm / 90 places	6
77902	16mm / 60 places	6
77903	20mm / 40 places	6
77904	25mm / 24 places	6
77905	30mm / 21 places	6

DRYING / DRAINING RACK

The plastic draining rack provides an excellent option for post wash draining of tubes and bottles. The back plate has 20 holes into which pegs are tightened with the help of screw-nuts. The bottom of the rack features a wastewater tray and drain.

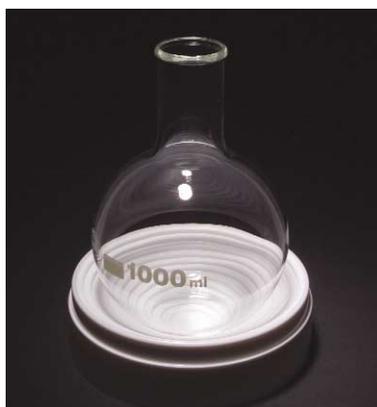


Item No.	Description	Quantity per pack
81741	Drying / Draining Rack, 20 Place	1



FLASK STAND

NEW



For use with round bottom flasks up to 10L, this polypropylene flask stand is ribbed to safely hold flasks in place and is fully autoclavable. Shipping weight: 0.25 Lbs., dimensions: 7" x 7" x 2".

Item No.	Description	Quantity per pack
45105	Polypropylene Flask Stand	1

HAND CENTRIFUGE



This hand-driven centrifuge comes with a table-mounting clamp. Features a painted metal body, and metal head. Comes complete with 4 each aluminum shields. Easily dis-assembles for storage in specially designed foam box. Crank is geared to head at 16:1 ratio. A crank rate of 12 turns in 10 seconds yields a head speed of 1152 rpm.

Item No.	Description
CENTFG1	Hand-driven centrifuge

WATCH GLASSES



Made from clear flint glass (1.8 to 2.0 mm thick), fine ground and polished edges.

Item No.	Size (Diameter)	Quantity per pack
WGL025	25 mm	12
WGL040	40 mm	12
WGL050	50 mm	12
WGL065	65 mm	12
WGL075	75 mm	12
WGL090	90 mm	12
WGL100	100 mm	12
WGL125	125 mm	12
WGL150	150 mm	12

HARDWARE ASSORTMENT



Kit includes a variety of commonly used hardware items in a general science, physical science, or chemistry laboratory. Designed for use by 2 – 4 students. Shipped in a re-usable storage box.

Contents:

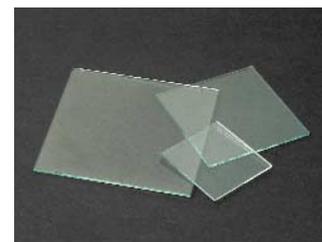
Alligator Clip w/ 24" Wire	2	Rubber Stoppers # 0, 1-hole	2
Burette Brush	1	Rubber Stoppers # 3 1-hole	2
Burette Clamp, Double	1	Rubber Stoppers # 6 1-hole	2
Clamp Boss Head	1	Rubber Stoppers # 6 2-hole	2
Clay Pipe Triangle, 2"	1	Rubber Tubing, 4 ft., 1/4" i.d.	1
Crucible Tong Plated 9"	1	Test Tube Clamp	2
Electrodes, Carbon Rods	2	Test Tube Rack, 12 Holes, 12 Pins, Wood	1
Metric Ruler, Plastic 30 cm.	1	Thermometer 20 to 150 C	1
Nichrome Wire w/ Aluminum Handle	1	Wash Bottle 250 ml Polyethylene	1
Pencil, Glass Marking, Blue	1	Water Reservoir Pneumatic Trough	1
Pinch Clamp Mohrs 2-1/4"	1	Wire Gauze Ceramic 5x5"	1
Ring Stand (5" x 8" base)	1	Total Pieces	32
Ring Support w/ 4" Clamp	1		

Item No.	Description
HRDKIT1	Hardware Assortment

GLASS PLATES

Plates made of clear flint glass, 2mm thick, with fine polished edges.

Glass Plates can be cut to custom sizes and/or packaged as per specifications.



Item No.	Description	Quantity per pack
GLP2X2	Glass Plate, 2"x 2"	12
GLP3X3	Glass Plate, 3"x3"	12
GLP4X4	Glass Plate, 4"x4"	12
GLP5X5	Glass Plate, 5"x5"	12
GLP6X6	Glass Plate, 6"x6"	12
GLP8X11	Glass Plate, 8"x11"	1



LABORATORY TRAY



Multi-purpose polypropylene molded trays can be used for sterilizing, drying glassware, porcelain ware, and other laboratory supplies. These steam autoclavable trays have tapered walls designed for nesting.

Item No.	Dimensions	Quantity per pack
81701	18" x 14" x 3"	10
81702	15" x 12" x 3"	10

UTILITY TRAY



Steam autoclavable, polypropylene molded tray can be used for sterilizing, drying labware, and are ideal for storage of labware.

Item No.	Dimensions	Quantity per pack
81721	15" x 14" x 5"	6

LABORATORY TRAY, FLAT, PP ★



These plastic trays are ideal for carrying, storing, and cleaning products. Can also be used to contain small spills, and serve as a drip pan. Measures 4/5" H x 11-1/2" W x 15" L.

Item No.	Description	Quantity per pack
LTRAY1	Laboratory Tray, Flat, PP	10

CARRIER TRAY



Steam autoclavable, polypropylene molded tray has a built-in handle for easy carrying of reagents or laboratory ware using one hand.

Item No.	Dimensions	Quantity per pack
81731	15" x 9.5" x 4.5"	6

DRAINING TRAY



This basket, with wide, net like structure on all size is useful for draining different laboratory apparatus after washing them. Made of Polypropylene, this tray can be repeatedly autoclaved.

Item No.	Dimensions	Quantity per pack
78103	16" x 16" x 4"	6



SET OF SPATULAS *NEW*



Set of 6 of our most popular spoons and spatulas for the laboratory or the classroom. Includes one each: SSSW04 (4" blade mounted on a hardwood handle), SSPP07 (Microspoon with Plastic Handle), SSSS06 (Stainless Steel 6" one end flat, one end spoon), SSFB06 (6" Stainless Steel Spatula, one end bent, one end flat), SSFT06 (6" Stainless Steel Spatula one end flat, one end tapered), and 81301 (polypropylene 6" one end spatula, one end spoon).

Shipping weight: 1 lb., shipping dimensions: 10" x 4" x 3".

Item No.	Description
SPATST6	Set of 6 Spatulas/Spoons

PLASTIC SPATULAS



Molded in polypropylene, spatulas feature a spoon on one side.

Item No.	Length	Quantity per pack
81301	6"	12
81302	8"	12

PLASTIC POLICEMAN/SPATULA



Multi-purpose tool that works as a stirrer as well as a spatula.

Item No.	Length / Diameter	Quantity per pack
81411	9.5" / 6mm	12

Nickel spatulas are also available. Call for prices.

SPATULAS



STAINLESS STEEL SPATULAS

Stainless steel spatulas, available in following styles and sizes.

Item No.	Description
SSFB08	Length 8" (20cm), one end flat, one end bent
SSFB06	Length 6" (15cm), one end flat, one end bent
SSFB04	Length 4" (10cm), one end flat, one end bent
SSFF05	Length 5" (12.5cm), both ends flat
SSFT06	Length 6" (15cm), one end flat, one end tapered



SPATULAS WITH WOODEN HANDLES

Flexible stainless steel blade with rounded end, mounted in a polished wood handle.

Item No.	Description
SSSW03	3" Blade
SSSW04	4" Blade
SSSW05	5" Blade
SSSW06	6" Blade
SSSW08	8" Blade

STAINLESS STEEL SPATULAS (ONE END FLAT, ONE END SPOON)

Item No.	Description
SSSP04	Overall Length, 4"
SSSP06	Overall Length, 6"
SSSP08	Overall Length, 8"

STAINLESS STEEL SPATULAS - BOTH ENDS FLAT

Item No.	Description
SSSS04	Overall Length, 4"
SSSS06	Overall Length, 6"
SSSS08	Overall Length, 8"



STAINLESS STEEL MICRO-SPATULAS

Item No.	Description	Specifications
SSFT08	Micro Spatula	21cm long, flat & pointed ends
SSPP07	Micro Spoon with Plastic Handle	16.5cm long, round & plastic ends
SSF09	Micro Spoon	23.5cm long, spoon & flat end



LABORATORY SCOOP

Great quality stainless steel scoop with one pointed end for handling small amount of chemicals. Length 6-1/2" (16.5 cm). Also available with 5" long hardwood handle.



Item No.	Description
LSCSS6	Laboratory scoop, stainless steel
LSHND1	Lab scoop hardwood handle
LSCSET	Lab scoop and handle set

CORK BORER SETS



Good quality plated brass cork borers with handles.

Item No.	Sizes in set
CBST03	3
CBST06	6
CBST09	9
CBST12	12

CHEMICAL FORCEPS

Excellent for handling chemicals, and hot objects. Available in stainless steel, or nickel plated steel. Edges are blunt, and fit squarely together.



Item No.	Description
FRST13	Steel Forceps
FRSS14	Stainless Steel Forceps

PLASTIC FORCEPS

These 4.5" long plastic forcep feature serrated inside tips and ribbed finger supports.



Item No.	Description
FOBPP5	Plastic Forceps 4.5"

GLASS STIRRING RODS



Stirring rods made of soft glass, with both ends rounded.

GLASS STIRRING RODS WITH PRE-ASSEMBLED RUBBER POLICEMAN

Item No.	Length / Diameter	Quantity per pack
GRPL05	5" / 3mm	12
GRPL06	6" / 5mm	12
GRPL08	8" / 5mm	12
GRPL10	10" / 6mm	12
GRPL12	12" / 10mm	12

RUBBER POLICEMAN

Item No.	Description
RHGSR1	Rubber policeman, pack of 12

GLASS STIRRING RODS

Item No.	Length / Diameter	Quantity per pack	Quantity per case
GSR005	5"/3mm	12	144
GSR006	6"/5mm	12	144
GSR008	8"/5mm	12	144
GSR010	10"/6mm	12	144
GSR012	12"/10mm	12	144

PLASTIC STIRRING RODS



Stirring rods made of polypropylene, with both ends rounded.

Item No.	Length / Diameter	Quantity per pack
81401	10" / 10mm	12
81405	8" / 7mm	12
81406	10" / 7mm	12
81407	12" / 7mm	12

PLASTIC TWEEZERS

These plastic tweezers are 10cm in length and feature serrated tips. Sold as a pack of 12.



Item No.	Description
P1012-1	Plastic Tweezers, pk/12



ANALOG HOT PLATE/MAGNETIC STIRRER



NEW

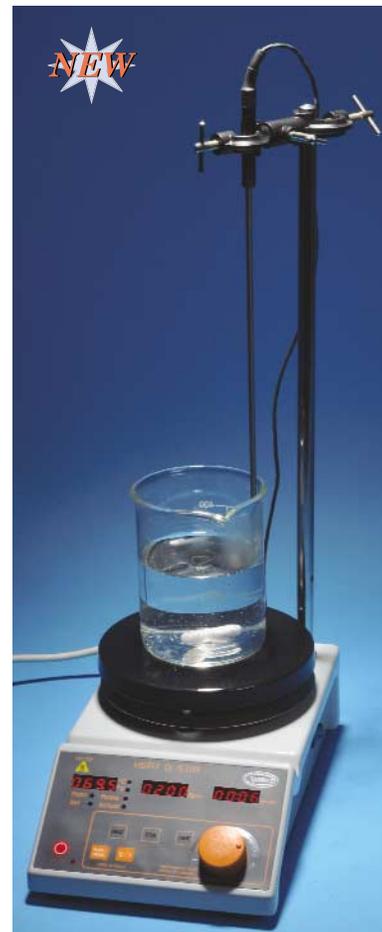
This Analog Hot Plate/Magnetic Stirrer features a stainless steel heating plate. Designed with double PT sensors, it also features a hot top indicator for safety along with an adjustable safety cut off. The technical specs are listed below:

- Speed range of 50 to 1700 RPM
- Maximum Stir bar length of 80mm
- Heat output of 450 W
- 0-350° Celsius temperature range
- Frequency of 50/60 Hz
- Voltage, 230/115 V
- Knob for electronic variable speed control
- Knob for regulating variable power
- Designed for use with beakers/flasks up to 3000ml in capacity.

Shipping weight: 6.5 lbs., dimensions: 11" x 6.5" x 4.25".

Item No.	Description
HPLATE-A	Analog Hot Plate / Magnetic Stirrer

DIGITAL HOT PLATE/MAGNETIC STIRRER



NEW

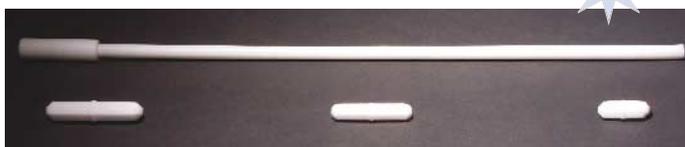
This Digital Hot Plate, with magnetic stirrer, features a scratchproof and chemically resistant ceramic coated heating plate. Designed with double PT sensors, this hotplate also features a digital set up temperature controller, RPM controller, and time controller, all of which have independent LED displays. The following accessories are included: boss head clamp, stainless steel rod, magnetic stirring bar, and PT100 sensor probe. The technical specs are listed below:

- Speed range of 50 to 1500 RPM
- Maximum Stir bar length of 80mm
- Heat output of 450 W
- 0-350° Celsius temperature range
- Frequency of 50/60 Hz
- Voltage, 230/115 V
- Knob for electronic variable speed control
- Adjustable safety cutoff range of 50-400 degrees Celsius
- Designed for use with beakers/flasks up to 3000ml in capacity

Shipping weight 7.0 lbs., dimensions 19" x 6.5" x 4.25".

Item No.	Description
HPLATE-D	Digital Hot Plate / Magnetic Stirrer

MAGNETIC STIR BARS **NEW**



Item No.	Description	Dimensions (Length x Diameter)
MSB15	Stir Bar, Octagon, with pivot ring	15mm x 7.5mm
MSB25	Stir Bar, Octagon, with pivot ring	25mm x 8mm
MSB35	Stir Bar, Octagon, with pivot ring	35mm x 9mm
MSB40	Stir Bar, Octagon, with pivot ring	40mm x 8mm
MSB48	Stir Bar, Octagon, with pivot ring	48.5mm x 10mm
MSZ12	Stir Bar, Polygon, without pivot ring	12mm x 3mm
MSZ25	Stir Bar, Polygon, without pivot ring	25mm x 8mm
MSZ40	Stir Bar, Polygon, without pivot ring	40mm x 8mm
MSZ70	Stir Bar, Polygon, without pivot ring	70mm x 9mm
MSHL15	Stir Bar, Egg-shaped, blunt edges	15mm x 7mm
MSHL30	Stir Bar, Egg-shaped, blunt edges	30mm x 13mm
MSHL50	Stir Bar, Egg-shaped, blunt edges	50mm x 20mm

Our new Magnetic Stir Bars are constructed of high quality magnets coated with PTFE. Along with individual sizes of polygon, octagon, and egg shaped, two convenient assortments are available. Stir Bar retrievers also available.

Item No.	Description
MSBA20	Magnetic Stir Bar Assortment, set of 20 (2 each of all MSB series bars, plus 2 each of MSZ12, MSZ70, MSHL15, MSHL30 and MSHL50)
MSBA50	Magnetic Stir Bar Assortment, set of 50 (5 each of all MSB series bars, plus 5 each of MSZ12, MSZ70, MSHL15, MSHL30 and MSHL50)
MBR350	Magnetic Stir Bar Retriever, 350mm long



TUBING CONNECTORS

Material: Polypropylene
Available in tapered and untapered styles, these polypropylene connectors are ideal for connecting tubing systems and vacuum lines. They will withstand flows to 20psi, and are autoclavable.



TAPERED CONNECTORS

Item No.	Fits Tubing I.D. mm (in)	Quantity per pack
Straight Connectors:		
KT510	3.2 to 5.5 (1/8 to 7/32)	20
KT511	4.8 to 7.9 (3/16 to 5/16)	20
KT512	6.4 to 9.5 (1/4 to 3/8)	20
KT513	9.5 to 11 (3/8 to 7/16)	20
KT514	11 to 14 (7/16 to 9/16)	20
KT515	12.7 to 15.9 (1/2 to 5/8)	20
Unequal Straight Connectors:		
KT877	3.7 to 8.2 (5/32 to 5/16) and 7 to 11.8 (9/32 to 15/32)	10
KT878	3.7 to 7.8 (5/32 to 5/16) and 11.5 to 16 (7/16 to 5/8)	10
KT879	7.1 to 12 (9/32 to 15/32) and 11.3 to 15.9 (7/16 to 5/8)	10

UNTAPERED CONNECTORS

Item No.	Fits Tubing I.D. mm (in)	Quantity per pack
T Connectors:		
KT459	4 (5/32)	20
KT460	6 (7/32)	20
KT461	8 (5/16)	20
KT462	10 (3/8)	20
KT463	12 (7/16)	20
KT520	14 (9/16)	10
KT521	16 (5/8)	10
Y Connectors:		
KT464	4 (5/32)	20
KT465	6 (7/32)	20
KT466	8 (5/16)	20
KT467	10 (3/8)	20
KT468	12 (7/16)	20
KT525	14 (9/16)	10
KT526	16 (5/8)	10

Also available: L Connectors, and 4-way Connectors; call for details.

TUBING CONNECTORS ASSORTMENT

An assortment of our straight and unequal connectors. With 18 connectors total, the assortment contains 2 each of the following sizes: KT510, KT511, KT512, KT513, KT514, KT515, KT877, KT878, and KT879.

Other assortments can be customized per your needs. Please call for details.



Item No.	Description
TCA001	Tubing Connectors Assortment (Straight/Unequal)

RUBBER STOPPERS



Convenient assortments of various sizes of rubber stoppers in 1-lb. Bags.

RUBBER STOPPER ASSORTMENTS

Item No.	Description	Sizes
RSTPK1	Rubber Stoppers, Assorted	1 to 6
RSTPK2	Rubber Stoppers, Solid	00 to 7
RSTPK3	Rubber Stoppers, 1-hole	00 to 7
RSTPK4	Rubber Stoppers, 2-holes	2 to 8

RUBBER STOPPERS

Item No. Solid	Item No. 1-Hole	Item No. 2-Hole	Stopper Size	Approx. No. per Lb.	Hole Size
RST000-S	RST000-H	NA	000	170	NA
RST00-S	RST00-H	NA	00	90	3mm
RST0-S	RST0-H	RST0-H2	0	63	3mm
RST1-S	RST1-H	RST1-H2	1	52	4mm
RST2-S	RST2-H	RST2-H2	2	45	5mm
RST3-S	RST3-H	RST3-H2	3	33	5mm
RST4-S	RST4-H	RST4-H2	4	28	5mm
RST5-S	RST5-H	RST5-H2	5	24	5mm
RST5A-S	RST5A-H	RST5A-H2	5 1/2	21	5mm
RST6-S	RST6-H	RST6-H2	6	18	5mm
RST6A-S	RST6A-H	RST6A-H2	6 1/2	16	5mm
RST7-S	RST7-H	RST7-H2	7	13	5mm
RST8-S	RST8-H	RST8-H2	8	10	5mm
RST9-S	RST9-H	RST9-H2	9	9	5mm
RST10-S	RST10-H	RST10-H2	10	7	5mm
RST10A-S	RST10A-H	RST10A-H2	10 1/2	7	5mm
RST11-S	RST11-H	RST11-H2	11	6	5mm
RST11A-S	RST11A-H	RST11A-H2	11 1/2	6	5mm
RST13-S	RST13-H	RST13-H2	13	4	5mm

GENERAL PURPOSE RUBBER TUBING

Flexible and strong rubber tubing available in 10' and 50' lengths. We stock Red color; Black is available as special order. Additional sizes as well as custom lengths are also available upon request.



Item No.	Description	Bore / Thickness
RT4812-10	Rubber Tubing, Red, 10'	4.8mm / 1.2mm
RT4812-50	Rubber Tubing, Red, 50'	4.8mm / 1.2mm
RT6016-10	Rubber Tubing, Red, 10'	6.0mm / 1.6mm
RT6016-50	Rubber Tubing, Red, 50'	6.0mm / 1.6mm
RT9524-10	Rubber Tubing, Red, 10'	9.5mm / 2.4mm
RT9524-50	Rubber Tubing, Red, 50'	9.5mm / 2.4mm



POLYSTYRENE SPOT PLATE, 12 CAVITY



These economical white plastic plates are suitable for most applications in which glass or porcelain plates are used; however, they are not recommended for strong solvents such as acetone or xylene. Each plate measures 112 x 92mm. Supplied in a pack of 12.

Item No.	Description
SPPL12	Spot Plate, 12 Depressions, Polystyrene, pack of 12

PORCELAIN SPOT PLATES



6 or 12 cavities, each cavity 2cm in diameter and 5mm deep.

Item No.	Description
SPP006	Porcelain Spot Plate, 6 Cavities
SPP012	Porcelain PorcelainSpot Plate, 12 Cavities

WELL PLATE



Clear polystyrene plate features 24 each 10/16" deep wells, and comes with a lid. Each well has an alpha-numeric marking. Dimensions are 5" long x 3-1/4" wide x 7/8" high. Plates are individually wrapped in a plastic bag, and are non-sterile.

Item No.	Description	Quantity per pack
F1004	Well Plate, 24 Wells	10

DISPOSABLE PIPETTES



Polyethylene dropping pipettes are graduated, and can be easily rinsed and re-used. Offered in 1ml and 3ml sizes; additional sizes can be special ordered.

Item No.	Description
F1015	1ml, pack of 500
F1016	3ml, pack of 500

RUBBER FILTER AID

This molded rubber filter disc is designed to support and seal in place a filter crucible or a funnel in the neck of a filter flask. Inside diameter of the socket at top is 32mm, and outside diameter of the disc is 76mm. The bottom of the disc is flat so that it seals tightly against the lip of the flask.



Item No.	Description
FLTR01	Rubber Filter Aid

FILTER PAPERS



Superior quality neutral filter paper, 100 circles packed in cardboard box. Suitable for medium filtration, very low ash content.

FILTER PAPER - CIRCULAR

Item No.	Size (cm)
FPR007	7
FPR009	9
FPR011	11
FPR125	12.5
FPR150	15
FPR180	18
FPR240	24
FPR320	32

We also cut Filter Paper to specific sizes and shapes. Call for minimum quantities.

FILTER PAPER - RECTANGULAR

Item No.	Size (inches)	Quantity per pack
FPR4X1-pk/6	4" x 1"	6
FPR8X11	8.5" x 11"	100
FPR1822	18" x 22"	100



PETRI DISHES



Disposable polystyrene petri dishes offer optical clarity and strength at economical prices. Sterilized.

Item No.	Description
K1006	65mm x 15mm, pk/10
K1004-J	90mm x 15mm, pk/10
K1001	150mm x 15mm, pk/10
K1003	90mm x 15mm, two compartment, pk/10

SCREW TOP CONTAINERS

Versatile, polypropylene containers are graduated in ounces and milliliters. Available in two sizes, graduated to 2 ounces / 50 ml and graduated to 4 ounces / 120 ml.



Item No.	Description	Quantity per pack
H1016	Screw Top Container, 2 oz./50 mL	50
H1015	Screw Top Container, 4 oz./120 mL	50

WATER BATH

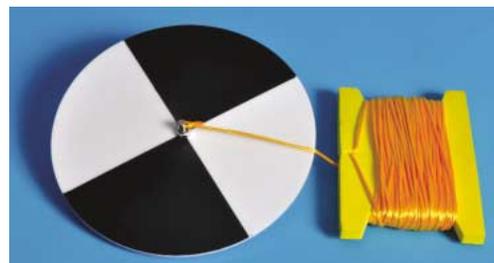
This standard size (8" x 23/4") water bath is ideal for heating flasks, bottles, tubes, etc. Features seven concentric rings, flat bottom, and a steam escape outlet. Solid stainless steel construction. Shipping weight: 1.5 lbs.



Item No.	Description
WTBH08	Water bath, stainless steel

SECCHI DISK

NEW



Good quality and inexpensive Secchi Disk for water clarity measurements. Constructed of robust white plastic disk with permanent screen printed black sectors. Includes attached sinker and rot-proof polymer line on polymer foam bobbin. Line length is approximately 72 feet (22m).

Shipping weight: 1.5 lbs., dimensions: 8.75" Diameter x 2" Height.

Item No.	Description
SCDSK1	Secchi Disk

B.O.D. BOTTLES

NEW

BOD Bottles for incubating diluted samples of clean water, waste water, effluent water, and polluted water during the 5-day biochemical oxygen demand (BOD) test. Bottles are unnumbered and feature a penny head stopper.

Numbered bottles are available upon request. Please call for details.



Item No.	Description	Quantity per pack
BOD060	BOD Bottles, 60ml, unnumbered	36
BOD300	BOD Bottles, 300ml, unnumbered	24
BODCAR	BOD Bottle Carrier	1

GLASS STREAK PLATES



Used for hardness testing of rocks and minerals, these 1/4" thick glass plates come in packs of 10.

Item No.	Description
GLP1X2-P	2" x 1" x 1/4", pack of 10
GLP2X2-S	2" x 2" x 1/4", pack of 10
GLP3X2-P	3" x 2" x 1/4", pack of 10



TIE-DYED LABORATORY COATS NEW



Similar to our top selling white lab coats, these knee length coats are made of easy care white cotton blend fabric (65% polyester, 35% cotton). Coats feature one upper left breast pocket, two roomy lower pockets, side slit openings, and an adjustable back belt. Coats are manufactured with a vibrant tie dye pattern.

Item No.	Description
LBCTKD	Tie-dye Lab Coat, Kids
LBCTSM	Tie-dye Lab Coat, Small
LBCTMD	Tie-dye Lab Coat, Medium
LBCTLG	Tie-dye Lab Coat, Large
LBCTXL	Tie-dye Lab Coat, Extra Large
LBCT2XL	Tie-dye Lab Coat, Double Extra Large

LABORATORY APRONS



These aprons are made of a chemical resistant PVC-coated cloth which stays flexible. There is reinforcement at the points of strain. Cloth ties at the neck and waist.

Item No.	Description
LBAP01	Lab Apron, 36"x27"
LBAP02	Lab Apron, 42"x27"
LBAP03	Lab Apron, 42"x36"
LBAP04	Lab Apron, 46"x36"

FABRIC LABORATORY APRONS



Apron, Natural Canvas

Reusable and machine washable, our fabric aprons offer a great value in the long run compared with disposable aprons. Available in attractive blue denim or natural canvas 100% cotton. Both aprons feature a large pocket on the front.



Apron, Blue Denim

Item No.	Description
LBAC01	Apron, Natural Canvas, 28" tall, 20" wide
LBAD01	Apron, Blue Denim, 28" tall, 20" wide

LABORATORY COATS



Knee-length lab coats made of easy care white cotton blend fabric (65% polyester, 35% cotton). Our coats feature one upper left breast pocket, two roomy lower pockets; side pocket slit openings, and an adjustable belt. A good value combined with comfort and style.

Item No.	Description
MEN:	
LCMXS1	Extra Small, size 34
LCMS01	Small, size 36
LCMM01	Medium, size 40
LCML01	Large, size 44
LCMXL1	Extra Large, size 48
LCMXXL1	Double Extra Large, size 50
WOMEN:	
LCLS01	Small, size 36
LCLM01	Medium, size 40
LCLL01	Large, size 42



LAB SUPPLIES

TRIANGULAR FILE

Ideal for scoring glass tubing for cutting. File has a tapered shape, and comes mounted on a hardwood handle.



Item No.	Description	Overall Length
TRF004	4" Triangular File	7"
TRF005	5" Triangular File	8"
TRF006	6" Triangular File	9"
TRF008	8" Triangular File	11"

TOOL KIT



Consists of 6" slip joint pliers, 6.5" long nose pliers, 6" adjustable wrench, 3-piece offset screwdriver set, and a 6-in-1 screwdriver set featuring slotted bits, Phillips bits, and nut drivers. Shipping weight: 1.75 lbs.

Item No.	Description
TKIT04	Tool Kit of 7

WIRE STRIPPER

Quickly removes insulation without damaging wire. Set-screw adjusts stripper to fit wire gauges from 10 to 24. Made from drop-forged, heat-treated steel with black baked enamel finish. PVC handles. Total length is 4 inches.



Item No.	Description
WSTK01	Wire Stripper

SCREWDRIVER

Slotted screwdrivers with durable plastic handle. Available in two different head sizes.



Item No.	Description
SDR001	Screwdriver, 120mm long x 2mm head
SDR002	Screwdriver, 110mm long x 4mm head

GAS LIGHTER

Hooded lighter is safe, and economical. The hood traps gas, and protects the lighting file. Replacement flints are also available.



Item No.	Description
GSLT01	Gas lighter
GSFLT1-pk/5	Replacement flints (pk/5)

FLASHLIGHT

Plastic, 5-1/2" long; uses two "AA" batteries (not included).



Item No.	Description
FSLT01	Flashlight

LAB TOOLS KIT



An assortment of the most commonly used lab tools, available as one convenient set. Contains one each of following: test tube brush, spatula, crucible tongs, test tube clamp, lab scoop, and forceps.

Item No.	Description
LSET6	Lab Tools Kit (6 pieces)

CRUCIBLE TONGS

Overall length 9", riveted joints, tips are serrated.



Item No.	Description
CTOS09	Oxidized Steel
CTSP09	Plated Steel
CTBR09	Brass
CTSS09	Stainless Steel

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