

**IPS**  
**Introductory Physical Science**

**Materials Catalog**  
9th Edition

**TEXTBOOKS, PRINT MATERIALS,  
and MEDIA:**

**Science Curriculum Inc.**

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### Instructions For Use Of This IPS Brochure

(Rev 6/2017)

The material quantities suggested are based on 24 students working in pairs. For smaller classes or for work groups of more than two students, lesser quantities of material may be needed.

PLEASE NOTE: Suggested quantities reflect package quantities; e.g., the suggested quantity of 12 for Alcohol Burners represents 12 times a pack of 2, or a total of 24 Alcohol Burners.

APPARATUS						
CATALOG NUMBER	DESCRIPTION	CHAPTER/EXPERIMENT	SUG QTY	UNIT COST	QTY	TOTAL COST
31405-DJ	Safety Goggles (Chemical Splash) (alt for 31395-DJ)	Most Sections	24	\$4.50		
31395-DJ	Safety Spectacles (Glasses) (alt for 31405-DJ)	Most Sections	24	\$2.95		
3112-01A-DJ	Stoppers, Rubber, No.2, 1 Hole (pk/12)	1	2	\$4.95		
6402-DJ	Balance, Equal Arm	1.8	1	\$57.95		
6404R-DJ	Gram Mass Set, 50g x 100mg	1.8	1	\$31.95		
6406AA-DJ	Peg Board Kit	1, 2, 3, 4, 5, 6, 10	12	\$39.95		
6406-04-DJ	Peg Board Back	See 6406AA-DJ R	--	\$8.50		
6406-05-DJ	Peg Board Base	See 6406AA-DJ E	--	\$6.95		
6406-01-DJ	Peg Board Clips (Clamps), Large (pk/36)	See 6406AA-DJ P	--	\$43.50		
6406-02-DJ	Peg Board Clips (Clamps), Small (pk/48)	See 6406AA-DJ L	--	\$42.50		
6406-03-DJ	Peg Board Hex Nuts (pk/50)	See 6406AA-DJ A	--	\$5.95		
6406-07-DJ	Peg Board Screws, 6/32 x 1 3/4" (pk/35)	See 6406AA-DJ C	--	\$5.95		
6406-08-DJ	Peg Board Screws, 6/32 x 2" (pk/50)	See 6406AA-DJ E	--	\$7.95		
6406-10-DJ	Peg Board Stand-offs, Large, 1 1/2" (pk/48)	See 6406AA-DJ M	--	\$26.95		
6406-11-DJ	Peg Board Stand-offs, Small, 1 1/4" (pk/36)	See 6406AA-DJ E	--	\$24.95		
6406-12-DJ	Peg Board Washers (pk/35) (optional)	See 6406AA-DJ N	--	\$5.95		
6406-13-DJ	Peg Board Wing Nuts, 6/32" (pk/100)	See 6406AA-DJ T	--	\$16.95		
6406-09-DJ	Peg Board Wood Screws, #8, 3/4" (pk/36)	See 6406AA-DJ PARTS	--	\$5.95		
1735-05-DJ	Test Tube, 20x150mm, Kimax, Heat Res. Glass (pk/72)	1, 2, 3, 4, 5, 6, 12	1	\$89.95		
19125-02-DJ	Brush, Nylon, Test Tube, Small	1, 2, 3, 4, 5, 6, 12	12	\$1.60		
64100-DJ	Graph Paper Notebook	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	24	\$9.95		
6408-01-DJ	Alcohol Burners (pk/2) (alt for Microburner)	1, 2, 3, 4, 5, 6, 8	12	\$14.90		
1940-DJ	Microburners (alt for Alcohol Burners)	1, 2, 3, 4, 5, 6, 8	12	\$24.95		
23115-0502-DJ	Bottle, Plastic, 500mL (pk/2)	1, 2, 3, 4, 5, 6, 8	1	\$4.95		
1525-DJ	Balance, Single Pan, Ohaus Cent-O-Gram	1, 2, 3, 4, 5, 6, 8, 10, 12	12	\$269.00		
15SPX222-DJ	Balance, Electronic, Ohaus Scout, 220g x 0.01g	1, 2, 3, 4, 5, 6, 8, 10, 12	2	\$419.00		
23128-0312-DJ	Bottle, Wash, 500mL (pk/12)	1, 3, 4, 5	1	\$45.90		
98770-DJ	Container, Plastic	1, 3, 4, 5	12	\$3.95		
3190-01b-DJ	Tubing, Rubber, 3/16" ID, 3/8" OD, 50'	1, 3, 4, 5	1	\$44.95		
17112-01-DJ	Tubing, 6mm, Heat Res. Glass - Right Angle	1, 3, 4, 5	12	\$3.20		
17112-DJ	Tubing Set (as above) - straight, short & long right angle (alt for 17112-01-DJ)	1, 3, 4, 5	12	\$6.95		
1720-04-DJ	Beaker, Kimax, 250mL (pk/12)	1, 3, 4, 5, 6, 10, 12	1	\$56.95		
1755-03-DJ	Cylinder, Graduated, 50mL	1, 3, 4, 6, 12	12	\$4.95		
19151-DJ	Scoopula, Stainless Steel, 7in. (pk/12)	1, 3, 4, 6, 10	1	\$21.95		
17150-0120A-DJ	Stirring Rods, Glass, 5" x 150mm (pk/20)	1, 3, 4, 6, 10	1	\$8.95		
4172-DJ	Ruler, Metric/English, 12" (pk/12)	1, 3, 11, 14, 15	2	\$8.50		
3102-01A-DJ	Stoppers, Rubber, No.2, Solid (pk/12)	1, 4, 5, 6	3	\$4.95		
23200-01L-DJ	Rack, Quality Wood, Test Tube, 6 tubes, 6 pins, 25mm (1" diam)	1, 4, 5, 6, 12	12	\$13.50		
69263-DJ	Scissors	1.8, 5.6	4	\$5.95		
6410A-DJ	Conservation of Mass Kit	2	12	\$4.50		
69225-02-DJ	Hammer	2	1	\$10.95		
6411A-DJ	Mass of Dissolved Salt Plastic Containers	2.1	12	\$4.25		
23116-02-DJ	Bottle, Wide Mouth, 4 oz (pk/12)	2.4	1	\$14.90		

APPARATUS						
CATALOG NUMBER	DESCRIPTION	CHAPTER/EXPERIMENT	SUG QTY	UNIT COST	QTY	TOTAL COST
4536-DJ	Cylinder Set, Equal Volume/Different Densities (set of 5)	3.2	12	\$14.75		
6412A-DJ	Metal Cube & Slab Set (Density of Solid Set)	3.5	12	\$13.50		
4528-DJ	Specific Gravity Specimens	3.6	12	\$12.95		
1720-02-DJ	Beaker, Kimax, 100mL (pk/12)	3.9	1	\$56.95		
P20-1/2LB-DJ	Paraffin (Blocks or Candles)	3.9	1	\$5.95		
1792-01-DJ	Dish, Evaporating, Porcelain	3, 4, 5	12	\$2.95		
3114-01A-DJ	Stoppers, Rubber, No.4, 1 Hole (pk/12)	3, 4, 5	1	\$5.95		
6408-02-DJ	Alcohol Burner Stand (pk/2)	3, 4, 5, 6	6	\$6.95		
1735-06-DJ	Test Tube, 25x150mm, Kimax, Heat Res. Glass (pk/72)	3, 4, 5, 6	1	\$129.95		
19125-04-DJ	Brush, Nylon, Test Tube, Large	3, 4, 5, 6	12	\$1.95		
1755-01-DJ	Cylinder, Graduated, 10mL	3, 4, 5, 6	12	\$3.30		
3124-01A-DJ	Stoppers, Rubber, No.4, 2 Hole (pk/12)	3, 5	1	\$5.95		
64124-DJ	Stopper, Cork, Slotted for Thermometer (pk/24)	3.9, 3.11, 5.1	1	\$17.50		
3330-DJ	Thermometer, Alcohol, Immersion, -20°/100°C	3, 5, 12	24	\$3.95		
23175-026-DJ	Funnel, Plastic (pk/6)	5.4	2	\$9.50		
4132-DJ	Stopwatch	5, 16	12	\$8.95		
1787-02-DJ	Crucible, Porcelain	6.6	12	\$3.95		
19158-DJ	Triangle, Clay (Pipe Stem)	6.6	12	\$2.15		
63178-DJ	Power Supply (Battery Charger), 6/12V	6, 10	12	\$39.50		
6541-02-DJ	Wire Leads with Alligator Clips (pk/10)	6.1, 10.2	3	\$12.95		
6414A-DJ	Electrolysis Electrodes (Stainless) w/Leads	6.2, 10.2	12	\$14.50		
70125-DJ	Cloud Chamber Kit	7	1	\$18.95		
6454-DJ	Black Box Set (pk/24)	8.2	1	Call		
6418-DJ	Fasteners and Rings (pkg)	8.4	12	\$14.95		
6448A-DJ	Spectral Analysis Kit (Flame Test Kit) w/ 15 spectroscopes	8.6	1	\$81.50		
6449-DJ	Spectral Analysis Replacement Chemical Kit	8.6	1	\$38.95		
70162-15-DJ	Spectroscope Kit (pk/15), replacement for Spectral Analysis Kit	8.6	1	\$48.90		
63186-01-DJ	Spectrum Tube (Helium)	8.7	1	\$29.50		
63186-02-DJ	Spectrum Tube (Hydrogen)	8.7	1	\$29.50		
63186-04-DJ	Spectrum Tube (Neon)	8.7	1	\$29.50		
63186-08-DJ	Spectrum Tube (Oxygen)	8.7	1	\$29.50		
63185-DJ	Spectrum Tube Power Supply, Dual Voltage, 110/220v AC	8.7	1	\$234.95		
6464-DJ	Dice, Common Game Size (pk/12)	8.9	12	\$4.95		
6456-DJ	Bromine Tubes Set	9.1	1	Call		
6458-DJ	Molecular Motion Model (Sphere Gas Machine)	9.2	1	\$69.95		
6442-DJ	Boyle's Law Apparatus	9.4	1	\$15.95		
6462-DJ	Fire Syringe, Premium Grade	9.5	1	\$45.95		
11482-DJ	Periodic Table, approx. 2' x 3'	10	1	\$20.95		
23112-00-DJ	Bottle, Drop-Disp, 15mL (pk/12) (optional)	11.3	1	\$7.95		
6460A-DJ	Molecular Size and Mass Kit	11.3	1	\$36.95		
64164-DJ	Tray, Black Finish	11.3	12	\$7.90		
	Mass of Atoms Film - Available from Science Curriculum	11.4, 11.5	1	--		
7735-5-DJ	Razor Blades, Single-Edge (pk/5)	12	1	\$1.55		
69322-DJ	Washers, Metal (or Weights), approximately 30g (pk/12)	12.4	1	\$14.95		
3345-DJ	Thermometer, Immersion, 10 to 40°C	12	12	\$26.95		
43118-DJ	L Energy Wheel Kit, with accessories (see 3345 above for Thermometer)	13	1	Call		

APPARATUS						
CATALOG NUMBER	DESCRIPTION	CHAPTER/EXPERIMENT	SUG QTY	UNIT COST	QTY	TOTAL COST
43323CP-DJ	GPE Conducting Paste (also use with Energy Wheel)	13	2	\$15.50		
79115-01-DJ	Magnifier, Hand, 3x / 6x	13	12	\$1.50		
43323A-DJ	Gravitational-Potential-Energy (GPE) Kit & Accessories (includes hi resolution thermometer, wood frame, S-hooks, weight, aluminum cylinder, monofilament, wooden dowel, & cord) (for replacement thermometer see 3345-DJ)	13.1	12	\$88.95		
69295-03-DJ	Clamp, C, 4"	13, 16	12	\$8.50		
4156-DJ	Meter Stick w/ metal ends	13, 16	1	\$5.95		
5957-DJ	Magnetic-Force Apparatus (block & dowel with embedded magnets, & spacers)	14.4	12	\$24.95		
43142A-DJ	Frictional Force Apparatus (friction block & spring scale)	14.5	12	\$13.90		
43144-02A-DJ	Friction Block, Long	14.6	1	\$13.50		
43144-01-DJ	Friction Block, Short	14.6	1	\$8.50		
98311-DJ	Rope, 50'	14, 15	1	\$6.50		
1590-02P-DJ	Scale, Spring, 10 N (optional)	14, 15	12	\$4.95		
1590-01P-DJ	Scale, Spring, 0-5 N	14, 16	12	\$4.95		
15114-DJ	Weight Set, Hooked, 1000g x 10g, 9 Weights	14.6, 16	1	\$97.95		
4351-DJ	Force Kit (board, ring, pushpins)	15.3	12	\$4.90		
1590-03P-DJ	Scale, Spring, 20 N	15.3	36	\$4.95		
43303A-DJ	L Air Puck Kit & Platform (air puck, rubber stopper, 3 balloons, stirrers, & platform)	15.6	12	\$58.95		
43308-DJ	L Air Puck Platform (also used with #43164A Cart Assembly in Chapter 16)	15.6, 16	--	\$42.95		
69211-DJ	Bubble Level	15, 16	1	\$5.25		
43164A-DJ	L Low-Friction Cart with Platform and Low-Friction Pulley (Air Puck Platform not included)	16	1	\$219.95		
41300-01-DJ	Motion Detector Protector	16	1	\$17.95		
	Graphing Software - Available from Science Curriculum		12	--		
<b>Other Equipment of Interest (Optional)</b>						
43245-DJ	Maxwell's Wheel	13.6	1	\$38.95		
5954A-DJ	Floating Magnets (5), with stand	14.4	1	\$8.95		
43161-1-DJ	Dynamics Cart (without explosion mechanism)	14.7	1	\$35.95		
1796-01-DJ	Mortar and Pestle Set		1	\$5.95		
17101-01-DJ	Watch Glass, 6.5cm Dia. (pk/12)		2	\$10.90		
4519-DJ	Density Cubes (1" cubes, 10 different materials)		1	\$30.95		

**CHEMICALS and CONSUMABLES**

		DESCRIPTION	CHAPTER/EXPERIMENT	SUG QTY	UNIT COST	QTY	TOTAL COST
S5-1KG-DJ		Sand	1	1	\$4.90		
S121-500G-DJ		Sodium Chloride, Coarse (Rock Salt)	1.5	1	\$4.25		
A230-GAL-DJ	<b>HP</b>	Alcohol, Denatured, Ethanol 95%	1, 2, 3, 4, 5, 6, 8	1	\$29.95		
64250-DJ	<b>H</b>	Matches, Safety (pk/10 boxes)	1, 2, 3, 5, 6, 8	1	\$3.95		
G70-500ML-DJ		Glycerin (Glycerol)	1, 3, 5	1	\$12.50		
S70-LB-DJ		Baking Soda (Sodium Bicarbonate)	1, 4	1	\$5.95		
C165-125G-DJ		Copper, Fine, Gran., Reagent	2	1	\$21.95		
4510-02A-DJ		Sheets, Latex (Rubber Dam), 3" x 3" (pk/12)	2	12	\$8.50		
A260-24-DJ		Alka Seltzer (or Equivalent) (pk/24)	2, 3, 4	2	\$6.99		
S120-500G-DJ		Sodium Chloride, Fine	2, 4, 5	1	\$5.50		
S295-100G-DJ	<b>H</b>	Sulfur Powder	2, 5	3	\$8.25		
64270-DJ		Rubber Bands (Assorted, 1 oz pkg)	2, 6	1	\$1.75		
B80-200G-DJ	<b>H</b>	BHT: 2,6-Di-tert-butyl-4-methylphenol	3	2	\$30.95		
M35-LB-DJ		Epsom Salt (Magnesium Sulfate)	3	1	\$5.90		
T57-200G-DJ	<b>H</b>	TOP: 4-(tert-octyl)phenol	3, 4	2	\$38.95		
A240-PT-DJ	<b>H</b>	Alcohol, Isopropanol, 99%	3, 4, 5	1	\$8.25		
B115-500G-DJ		Boiling Chips	3, 5	1	\$11.95		
A67-100G-DJ		Citric Acid	4	1	\$6.95		
C191-100G-DJ		Copper (II) Acetate, Mono, RG	4	2	\$17.90		
P90-500G-DJ	<b>H</b>	Potassium Dichromate, Granular	4	1	\$19.95		
P170-500G-DJ	<b>H</b>	Potassium Nitrate, Granular	4	1	\$11.40		
S170-100G-DJ	<b>H</b>	Sodium Nitrate, Granular, Purified	4	1	\$5.95		
C219-500G-DJ	<b>H</b>	Copper (II) Sulfate, Crystals	4.1, 4.3, 4.4	1	\$16.50		
P199-100G-DJ		Potassium Sulfate, LG	4.3, 4.4	1	\$7.55		
S285-500G-DJ		Sugar, Granulated (1 lb)	4, 5	1	\$5.90		
19215-DJ		Filter Paper, Tape, 2cm x 100m Roll	5	1	\$34.95		
19205-03-DJ		Filter Paper, Med., 12.5cm (box/100)	5	1	\$7.50		
1983-01-DJ		Pens, Felt Tip (set/3: Green, Red, Black)	5, 13	12	\$7.95		
C173-125G-DJ	<b>H</b>	Copper Powder (Dust)	6	1	\$17.75		
S106-500G-DJ		Sodium Carbonate, Monohydrate, Granular	6	2	\$16.95		
19155-DJ		Wood Splints, Appr. 12cm Long (pk/500)	6	1	\$4.95		
Z8-PKG-DJ		Zinc Pieces (pk/100)	6	1	\$12.90		
98790-DJ		Towel, Paper, Roll	6, 7, 12	1	\$2.95		
A85S-500ML-DJ	<b>HP</b>	Hydrochloric Acid, Conc., Reagent	6, 12	1	\$23.95		
A270-1-DJ		Aluminum Foil, Regular	7, 11	1	\$3.75		
A271-DJ		Aluminum Foil, Heavy	7, 11	1	\$5.95		
S246-500ML-DJ		Starch Indicator Solution	10	1	\$12.60		
S255-PKG-DJ		Steel Wool (Medium) (pkg)	10	1	\$5.90		
Z42-5G-DJ		Zinc Iodide, 5g	10	1	\$47.00		
6379-DJ		Copper Strips - Electrodes (pk/10)	10.2	1	\$17.50		
77160-DJ		Eye Dropper (pk/12)	10, 11	1	\$3.95		
M5-1OZ-DJ	<b>H</b>	Magnesium Ribbon, 1 Roll	12	1	\$11.90		
64230-DJ		Styrofoam Cups (pk/50)	12	1	\$3.95		
69312-DJ		String, roll	12.4	1	\$4.25		
43323CP-DJ		Heat Sink Compound (GPE Conducting Paste), 1 ounce	13	1	\$15.50		
98700-DJ		Bags, Small Plastic (pk/50)	13.1	1	\$4.95		

**CHEMICALS and CONSUMABLES**

	DESCRIPTION	CHAPTER/EXPERIMENT	SUG QTY	UNIT COST	QTY	TOTAL COST
43240-03-DJ	Fishing Line, 30#, for GPE and Cart Experiments, 50'	13, 16	1	\$1.95		
901AM1-26-DJ	Cleaning Solution	14, 15.6	1	\$3.50		
A245-PT-DJ	Rubbing Alcohol	14, 15.6	1	\$3.90		
69303-03-DJ	Tape, Masking	14, 16	1	\$3.25		
19201-DJ	Wrapping Paper, Heavy, 2' x 5' (pk/12)	15	1	\$9.95		
43303-02-DJ	Balloons, for Air Puck Kit (pk/10)	15.6	1	\$3.50		
98791-DJ	Hollow Stirrers, for Air Puck Kit (pk/100)	15.6	1	\$1.70		
1984-DJ	Markers, Black (pk/5)	15.6	1	\$10.95		
64240-250-DJ	Straws (pk/250)	15.6	1	\$4.50		

**Hazardous Handling Surcharge:** Because of Department of Transportation and freight carrier regulations, there will be a special handling surcharge for products classified as "hazardous". UPS and FedEx assess additional charges for "hazardous" items; these chemicals are identified with an H. Whenever possible, compatible items will be shipped in a single carton. In addition to the above charges, some chemicals, indicated by a P, require special packaging and/or must be shipped by motor freight. Please contact us for shipping and handling charges on these items.

**SAFETY ITEMS:** It is recommended that the following items be used throughout the course

CATALOG #	DESCRIPTION	UNIT COST	QTY	TOTAL	CATALOG #	DESCRIPTION	UNIT COST	QTY	TOTAL
31385-0212A-DJ	Apron, Translucent, Medium, pk/12	\$64.95			31401-DJ	Sanitizing Goggle UV-Storage Cabinet	\$599.00		
2535-00-DJ	Flammable Storage Cabinet, Metal	\$599.00			31400-01-DJ	Replacement UV Bulb for above	\$39.90		
2544-02-DJ	Corrosive Storage Cabinet, 4-gal., Poly	\$639.00			25205-02-DJ	Glass Disposal Box, pk/6	\$54.95		
31415-12-DJ	Eyewash Station w/16-oz bottle, pk/2	\$51.95			31345-DJ	Rubber Hand Protector for Hot Glassware	\$13.95		
31363-02-DJ	Vinyl Gloves, Disp., Medium, pk/100	\$11.75			31405-12A-DJ	Safety Goggles, chemical splash, pk/12	\$54.00		

**TERMS AND BUSINESS POLICIES**

**PRICES:** All prices are FOB warehouse and are current at the time of printing. However, due to cost fluctuations, prices may be adjusted occasionally without notice.

**SHIPPING:** When specific instructions are not given, we will use the fastest, most economical routing considering the nature and value of the shipment as well as I.C.C., OSHA, D.O.T., and Post Office Department regulations. Most orders can be shipped UPS or FedEx unless the order exceeds the size or weight limits of UPS or FedEx, in which case the order will be shipped by truck. UPS and FedEx assess additional charges for "Hazardous" items. These chemicals are identified with an H. Whenever possible, compatible items will be shipped in a single carton. In addition to the above charges, some chemicals, indicated by a P, require special packaging and/or must be shipped by motor freight. Please contact us for shipping and handling charges on these items.

Shipping and handling charges for most items are estimated at 14%. However, unusually heavy or large items indicated with an L are estimated at 16%. For customers with open accounts, shipping and handling charges will be prepaid and added to the invoice. All other customers must pay in advance by check or money order. Minimum charge is \$8.50 for shipping and handling, plus, if applicable, hazardous chemical surcharges. Residential addresses: add \$3.50.

**MINIMUM ORDER:** Orders under thirty-five dollars will be charged a \$5.00 small order handling fee.

**Damaged Merchandise:** Although every possible precaution is taken, damage to merchandise may occur during shipment and should be reported to Chem Scientific Customer Service immediately. All damage, visible or concealed, must be reported at once to the delivery carrier. Failure to comply with established procedures may cause your claim to be disallowed.

**Returns:** To insure accurate and prompt handling, please contact us before returning merchandise for repair, replacement or credit. Returns will only be accepted within 30 days of date on invoice, and only on stock merchandise in original condition. A 15% restocking charge will be assessed on returned goods when order has been correctly filled. Hazardous chemicals and special order items are not returnable.

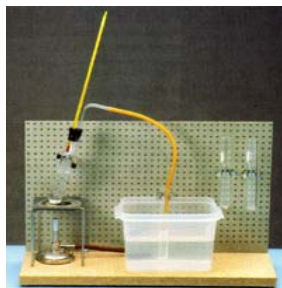
**TERMS:** Net 30 days for school districts and other institutions of approved rating.

**Ohaus Scout Pro Portable Electronic Balance.**

Whether it is for classroom, laboratory or industrial applications, weighing has never been easier than with Scout™ II's simple two-button operation and high contrast display. Weighing modes include g, oz, lbs, oz t, dwt and parts counting; users have the versatility needed for a multitude of applications. Scout™ II is powered by an AC adapter (included) or by 4 AA batteries (not included). Capacity 220g Readability 0.01g



15SPX222-DJ \$419.00 ea



**Peg Board Kit.** Kit includes a pegboard back to be mounted on a base with parts included for assemblies to conduct basic experiments. Parts included are clips, standoffs, screws, washers and wing nuts.

6406AA-DJ \$39.95 ea

**Flammable Safety Storage Cabinet,**

by Eagle. Galvanized steel shelves support 350 lbs; galvanized steel leveling legs; 18-gauge steel reinforced double wall panel construction; 2" raised leakproof sill; 2" vent with fire baffle & cap; ground connection; lockable door.

18x18x22" (4 gal) 2535-00-DJ \$599.00 ea



**Acid/Corrosive Safety Cabinet,** by Eagle. 100% molded polyethylene, no metal parts; lockable; resistant to most acids/corrosives; integral sumps in each bottom section (1 gal); easy cleaning; drip edges on doors keep spills in the cabinet; work area on top with 1-gallon sump capacity.

35x36x22" (22gal) 2544-01-DJ \$1199.00 ea  
18x22x18" (4gal) 2544-02-DJ \$639.00 ea



**Equal Arm Balance.** Features a styrene base with an aluminum beam that pivots on agate bearing. Sliding weights allow for fine adjustment.

6402-DJ \$57.95 ea

**Alcohol Burner,** 1oz. 1½" sq metal plate attached to an overhanging 1¼" round cover to prevent escaping fumes from being ignited (alcohol is released only through the wick), pk/2

6408-01-DJ \$14.90/pk



**Alcohol Burner Stand.** Inverted V-shaped base of heavy gauge wire provides added stability; steel gauze top, pk/2.

6408-02-DJ \$6.95/pk

**Spectral Analysis (Flame Tests).**

Learner uses nichrome wires on handles to conduct flame tests on these elements: Barium, Calcium, Copper, Lithium, Potassium, Sodium and Strontium. In this way, heavy metals are introduced to the flame via the wire instead of sprayed into the air. A bunsen burner is needed in addition to the materials in the kit. Includes reproducible student worksheets and enough material for up to 50 students to perform flame tests.

Also includes 15 spectrosopes. 6448A-DJ \$81.50 ea

**Spectrum Tube Power Supply.**

Dual voltage. Metal case, on/off switch, pilot light. Spring-loaded sockets for secure fit of tube with ends fully enclosed for full safety. 110/220V AC.

63185-DJ \$234.95 ea



**Molecular Size and Mass Kit.** Helps students discover the indirect means by which small, invisible particles are measured and their masses estimated. Demonstrates how to determine the size of molecules. Includes 1oz each of Oleic Acid and Lycopodium Powder.

6460A-DJ \$36.95 ea

**Cloud Chamber Kit.**

Dramatically demonstrates radioactive emission. "Trails" of alpha and beta particles can be seen in the clear plastic chamber. Each kit includes chamber and radioactive source. Materials needed: dry ice & alcohol.

70125-DJ \$18.95 ea

**Sterilization/Storage Cabinet,** by Kerkau.

Ultraviolet sanitation process is lethal to virtually 100% of all microorganisms. Durable, heavy-gauge steel; timer for worry-free operation.

30x30x12" (40 goggles) 31400-DJ \$759.00  
28x24½x9¼" (30 goggles) 31401-DJ \$599.00  
Replacement UV Bulb 31400-01-DJ \$39.90

**Eyewash Station.**

Squeeze-type bottle of sterile, isotonic buffered solution for fast relief from corrosives, smoke, salt, sand, fumes, and other irritants. Wall mount for easy accessibility. Includes 1 16 oz bottle/solution, pk/2.

31415-12-DJ \$52.95/pk



# **IPS: Introductory Physical Science**

The items appearing in this brochure are the materials recommended by the authors of IPS. The material quantities suggested are based on 24 students working in pairs. For smaller classes or for work groups of more than two students, lesser quantities of material may be needed. O/L indicates the material can be obtained most economically from a local source.

Please review the activities in the text before ordering. Keep in mind that the suggested amount of equipment is a flexible quantity that is directly related to your needs, budget, and classroom management style.

**Placing an Order:**

Orders can be placed by filling out this brochure or order form, then mailing or faxing the information to Chem Scientific at the address shown on the front of this brochure. Orders can also be placed by phone or email.

Email: [info@chemsci-ips.com](mailto:info@chemsci-ips.com)

Website: [www.chemsci-ips.com](http://www.chemsci-ips.com)

Phone: 781-440-0900

**Chem Scientific, LLC  
478 Walpole Street  
Norwood, MA 02062**

**Attention: Science Department**