

*The Spectrum*TM Chemistry Durable Equipment

- Glass beaker 250 ml
- Stopwatch
- Erlenmeyer flask, 250 ml
- Pipette
- Stopper/ glass tubing apparatus
- Large test tube (2)
- Small test tube
- Test tube clamp
- Light-emitting diode, 2 V, 20 mA
- Light-emitting diode, 12 V, 20 mA
- Syringe, 5 cc
- Tongs

Durable Bag Contents

- Lead sinker
- Jumper wire w/ alligator clips, 3 sets
- Black insulated copper electrodes, 2 ea., lab 16
- Blue insulated copper electrodes, 2 ea., lab 31
- Bare copper wire, bent to 90°, 2 ea.
- Fender washers, 2 ea.

If you have NOT previously used *The Rainbow*TM junior high program, or have used it but no longer have your lab materials, your chemistry durable kit should include these items as well. If you HAVE used *The Rainbow*TM, these are the durable items you will need from it in order to do *The Spectrum*TM chemistry program:

- Syringe, 5 cc (total 2 ea.)
- Syringe, 20 cc
- Glass beaker, 50 ml
- Glass medicine dropper
- Glass stir rod
- Thermometer
- Safety glasses
- Funnel
- French square bottle
- Graduated cylinder, 50 ml
- Plastic weighing dish
- Test clip assembly
- Ruler

*The Spectrum*TM Chemistry Renewable Supplies

- Vials (see separate sheet for complete list)
- Disposable beakers, 11 ea.
- Lid for above, 1 ea.
- Steel wool, 3 ea.
- Popsicle stick
- 3 pr. gloves, XL
- 3 pr. gloves, M
- Length of shrink tubing (3 ea. including one extra)
- Graphite electrode tips, 2 cm, 2 ea.
- 9V battery
- Chemical apron
- Aluminum boat
- Spiral notebook
- Multicolored index cards
- Absorbent disposable pad (inside evaporation pan)
- Cardboard protector contents
- Paper towels, bundle
- Styrofoam packing peanuts, 4 ea.
- PVC squares, 1 x 1 in., 4 ea.
- Cotton swab
- Stick matches
- Colorless cups, 16 oz., 5 ea.
- Cleanup sponge
- Cellulose sponge, 3 pc.
- Masking tape
- Permanent marker
- Pencil
- Aluminum evaporation pan
- Aluminum foil, 2 x 2 in., 4 ea.
- Aluminum wire, 1 ea., 3 cm
- Iron wire, 1 ea., 3 cm
- Zinc wire, 1 ea., 3 cm
- Bamboo stick
- 10 oz. clear cup
- Non-insulated, bent zinc electrodes, 2 ea., lab 16

Cardboard Protector Contents

- Aluminum foil, 12 x 12, 3 ea.
- Aluminum foil, 4 x 4, 5 ea.
- Diaper paper, 5 ea.
- Filter paper, coarse, 2 ea.
- Filter paper, fine, 5 ea.
- White paper, 5 ea.
- Electron configuration sheets, 5 ea.

Book Package:

- Textbook
- Teacher's guide
- Lab Workbook
- Quiz packet

List of Vials for *The Spectrum*TM Chemistry:

- 1 Mercuric Chloride, 2.5 mg, microvial
- 1 Citric Acid, 0.4 g, glass
- 1 Oxalic Acid, 1.3 g, glass
- 1 Potassium Carbonate Sesquihydrate, 3.0 g, glass
- 1 Calcium Carbonate, Silica Sand, Magnesium Sulfate, 1.0 g mixture, glass
- 1 Resazurin, 2.0 mg, glass
- 4 Copper(II) Sulfate Pentahydrate, 1.0 g, glass
- 2 Copper(II) Sulfate Pentahydrate, 3.0 g, glass
- 1 Copper(II) Sulfate Pentahydrate, 0.02 g, microvial
- 5 Copper(II) Chloride, 0.5 g, glass
- 1 Iron Filings, 16 g, plastic
- 3 Luminol, 0.03 mg, glass
- 1 Sodium Carbonate, 1.0 g, glass
- 1 Sodium Carbonate, 3.0 g, glass
- 1 Sodium Carbonate, 0.1 g, glass
- 1 Sodium Carbonate, 12 g, plastic
- 1 Bromthymol Blue (in sodium hydroxide), 0.4 mg solid, 1.0 mL solution, 2 mL screw thread vial
- 1 Methyl Red (in denatured ethanol), 0.4 mg solid, 1.0 mL solution, 2 mL screw thread vial
- 1 Phenolphthalein (in denatured ethanol), 10 mg solid, 1.0 mL solution, 2 mL screw thread vial
- 1 Calcium Chloride, dihydrate, 0.1 g, glass
- 1 Ammonium Nitrate, 1.0 g, glass
- 1 Lithium Bromide, 1.0 g, glass
- 1 Potassium Chloride, 1.0 g, glass
- 1 Sodium Nitrate, 1.0 g, glass
- 1 Zinc Sulfate Heptahydrate, 1.0 g, glass
- 2 Fluorescein Diacetate, 0.2 mg, glass
- 1 Sodium Iodate, 0.4 g, glass
- 1 Sodium Sulfite, 0.2 g, glass
- 1 Potassium Sulfate, 2.5 g, plastic
- 1 Potassium Sulfate, 2.5 g, glass
- 1 Potassium Sulfate, 5.0 g, plastic
- 1 Calcium Acetate, 1.0 g, plastic
- 1 Sucrose, 0.8 g, glass
- 3 Activated Carbon, 5.0 g, plastic
- 2 Iodine Crystals, < 0.1 g, ampules
- 1 Denatured ethanol, leak-proof bottle, 30 mL
- 1 Methyl Ethyl Ketone, 2.0 mL, 4 mL screw thread
- 1 Blue Dye, 0.5 mL, 2 mL screw thread
- 1 Yellow Dye, 0.5 mL, 2 mL screw thread
- 1 Acetone, 3.0 mL, 4 mL screw thread
- 1 Acetic Acid, leak-proof bottle, 60 mL
- 1 Hydrogen Peroxide, 2.0 mL, 4 mL screw thread
- 1 Sodium Chloride, 0.8 g, plastic
- 1 Sodium Chloride, 5.0 g, glass
- 1 Sodium Chloride, 0.8 g, glass

- 1 Sodium Chloride, 160 g, bag
- 1 Detergent, 1:8, 2 mL solution, 6 mL headspace vial
- 1 Mineral Oil, 15 mL, plastic
- 1 Acetone, 5.0 mL, 6 mL headspace vial
- 13 Empty Glass
- 1 Empty Plastic