

Shopping List for 8th Grade: Chemistry

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How many of these items do you already have? We've tried to keep it simple for you by making the majority of the items things most people have within reach (both physically and budget-wise).

- 90 degree glass tubing
- 9V battery clip
- 9V battery, 2
- alcohol burner
- alligator wires, 2
- aluminum foil
- aluminum pie plate
- ammonium chloride
- baby oil (or vegetable oil)
- balloon
- blocks (or stones)
- Borax (aka sodium tetraborate)
- boric acid
- bowl
- burette
- calcium chloride (Ice Melt or Dri-Ez)
- calcium hydroxide ($\text{Ca}(\text{OH})_2$)
- candles, 3 (with adult help)
- carbon rod
- card stock
- cardboard box (close to 10"x5"x5")
- cardboard tube
- CD (old)
- charcoal (a piece)
- chemistry stand
- [Chemistry teleclass worksheet](#)
- clock
- copper strip
- copper sulfate
- corn starch packing peanuts
- cornstarch
- cup
- cups (disposable)
- dark brown glass storage bottle
- denatured alcohol
- diffraction grating
- dish soap
- disposable droppers
- disposable plastic cup (with lid)
- dollar bill
- electrical wires
- Epsom salt (magnesium sulfate)
- Erlenmeyer flask
- evaporating dish
- filter paper
- fire extinguisher (with adult help)
- flameproof surface (large ceramic tile or cookie sheet)
- flashlight lamp
- freezer
- glass jar, 3
- glass of water (OR can of soda)
- gloves
- glue (clear or white)
- goggles
- heating rod
- highlighter (yellow)
- hydrogen peroxide, 3%
- ice
- index card
- iodine (non-clear, non-ammonia)
- iron filings
- jar (large enough to fit over 3 candles)
- lemon (large, fresh - or other fruit)
- lighter (OR matches with adult help)
- magnesium strip
- magnet (strong)
- masking tape
- match (long one OR a long thin piece of wood to light)
- measuring spoon
- measuring syringe
- medicine droppers, 4 (at least)
- metal bolt (with nut and large washer)
- multimeter (digital)
- [OPTIONAL: fluorescent UV black light](#)
- OPTIONAL: instant reusable hand warmer (containing sodium acetate)
- OPTIONAL: phenolphthalein
- oxygen (in a test tube)
- pan
- paper
- paper towels
- paperclip
- peanuts (raw)
- pennies (shiny copper)
- photocopy of a ruler (or a sketch with 1 through 10 cm markings, about 4 cm wide)
- pie plate (aluminum)
- pipettes (dropper kind)
- plastic bag
- plastic cups (disposable)

- plastic tub
- popsicle sticks
- potassium bromide
- potassium chloride (Nu Salt)
- potassium iodide
- potassium permanganate
- propane torch (with adult help)
- Pyrex glass beaker
- razor blades, 2 (with adult help)
- rubber bands
- rubber stopper (one-hole)
- rubber stopper (solid)
- rubber tubing
- rubbing isopropyl alcohol (50-91%)
- ruler
- scissors
- shallow baking dish
- silver nitrate
- soap (liquid)
- sodium acetate
- sodium carbonate (Na_2CO_3) (MSDS)
- sodium hydrogen sulfate (NaHSO_4) (MSDS)
Sodium hydrogen sulfate is very toxic.
Respect it, handle it carefully and responsibly.
Do not take it for granted.
- sodium sulfate (OR salt)
- sodium thiosulfate
- splints, 2 (wood)
- stain-free work surface
- stirring rod
- stock bottle (for NaOH storage)
- sugar (granulated white)
- sulfur
- table salt
- test tube clamp
- test tube rack
- test tube stopper
- test tubes, 12
- test tubes, 2 (plastic)
- test tubes, 2 (with caps)
- tile (OR concrete surface - something non-flammable)
- toner cartridge (old one from a laser printer or copy machine)
- tongs
- tripod stand
- tweezers (OR pliers)
- vinegar (distilled white is best)
- washing soda (sodium carbonate)
- water
- water (distilled)
- water bottle

- water cup
- water pan
- wire screen
- wires, 2 (one copper at least 12", both with ends stripped)
- yeast
- zinc powder (Zn)
- zinc strip