

Shopping List for 4th Grade: Energy

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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).

- 3" x 1/4" rubber bands
- 7×10" page magnifier ([Fresnel lens](#))
- AA batteries
- alligator clip leads
- alligator wires, 6
- aluminum can (12 ounce, empty and clean)
- aluminum foil
- black paint (flat, not shiny)
- bleach (IMPORTANT: WEAR GOGGLES!)
- cardboard boxes, 2 (one about a 10" cube)
- clear plastic cups, 3
- construction paper (black)
- cookie dough
- copper pennies minted before 1982 (or a short section of copper pipe)
- digital multimeter
- dull nail (iron)
- earphones (or headset for portable radio)
- electrodes
- foam block, 2 (about 6" long)
- gears, (one of which fits onto your motor shaft - most solar motor kits come with a set or rip a set out of an old toy)
- glass container (like a cleaned out jam jar)
- graphite from inside a pencil (use a mechanical pencil refill)
- hot glue gun
- index cards
- long rope (at least 10 feet)
- masking tape
- match (or lighter - with adult help)
- measuring cup
- milk jug lids, 4 (or film canister lids)
- newspaper
- OPTIONAL: straws
- paint brush
- paper (white)
- paperclip (large)
- penny (new and shiny)
- pizza box (clean!)
- plastic cup (large)
- plastic pan (4 inches deep and 12 inches across is a convenient size, other sizes should work)
- plastic wrap
- plate
- poster board (large sheets - black is best)
- propeller (you can rip one off an old small personal fan or old toy, or find them at hobby stores)
- real silverware (not stainless)
- reusable plastic baggies
- salt
- scissors (or razor with adult help)
- shelled peanut
- shiny nail (galvanized)
- silicon solar cell
- sink
- small pair of pliers
- small tea bags, 2
- S'mores supplies (chocolate, marshmallows & graham crackers)
- solar cell, 2
- solar motor, 2
- spoons, 2
- string or yarn (three 3-foot sections)
- table (or chair)
- tape
- thermometer
- timer (or stopwatch)
- tomato juice
- tongue depressors
- vinegar (distilled white)
- watch (or clock)
- water
- weight (for the end of your string)
- wood screws (brass)
- wooden skewers (BBQ style)