

Everyday Electricity

Book

Everyday Electricity, Heron Books

Other Materials

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| <input type="checkbox"/> <i>Everyday Electricity Teacher Tips</i> , Heron Books (downloadable) | <input type="checkbox"/> Circuit breaker (not installed in a panel) |
| <input type="checkbox"/> Balloons (9 to 12 inch) | <input type="checkbox"/> Uninsulated 18-gauge copper wire |
| <input type="checkbox"/> String | <input type="checkbox"/> Enamel insulated 18-gauge copper wire |
| <input type="checkbox"/> Aluminum foil | <input type="checkbox"/> Five galvanized nails (1 to 1 ½ inch) |
| <input type="checkbox"/> White vinegar | <input type="checkbox"/> LED bulb (any color) |
| <input type="checkbox"/> Plastic ice cube tray | <input type="checkbox"/> Galvanometer |
| <input type="checkbox"/> Small Styrofoam balls (1- to 2-inch diameter) | <input type="checkbox"/> Three-inch-long bolt |
| <input type="checkbox"/> Fine grade sandpaper | <input type="checkbox"/> Magnet (rectangular ceramic type) |
| <input type="checkbox"/> Six alligator clip leads (6-12 inch length) | <input type="checkbox"/> Transformer with 120 volts AC on the input side and 12 volts AC on the output side that can be plugged into a wall outlet. (This allows the student to test input and output voltages without changing from AC to DC on the voltmeter.) |
| <input type="checkbox"/> Two 6-volt lantern batteries with coil spring terminals | <input type="checkbox"/> A simple voltmeter with digital readout |
| <input type="checkbox"/> Two 6-volt miniature light bulbs—screw-in type (also called lamp board bulbs) | <input type="checkbox"/> Hand-crank generator designed for kids. It should have a built-in bulb and terminals where alligator clip leads can be attached. It should allow the student to see the gears and motor clearly. Examples: United Scientific Supplies Hand Held Generator from Fisherscic.com or Hand Held Manual Electricity DC Crank Generator (light bulb kit) from Banggood.com |
| <input type="checkbox"/> Two sockets for 6-volt bulbs (also called bulb holders) | <input type="checkbox"/> A small motor that's been opened |
| <input type="checkbox"/> Several 12-volt motors designed to run on batteries | |
| <input type="checkbox"/> One single blade knife switch | |
| <input type="checkbox"/> Samples of wire used to carry electricity (14-gauge solid conductor house wire, stranded wire lamp cord or extension cord, low voltage single conductor bell wire, headphone wire, other wire samples as available) | |