

Traveling Energy Exploration Station

ELECTRICITY SUPPLIES LIST

The following activities are included in the Energy Efficiency Traveling Energy Exploration Station. Items in italics will need to be provided by the person using the station.

All these activities strive to use scientific inquiry teach students field and classroom investigative skills and foster critical thinking skills. We include lab supplies and basic hand tools whenever possible. With this said, each activity strives to include Science TEKS 1-4 to some degree.

Models

Watts' Up Meter

Activities

Tale of Two Light Bulbs - Compact Fluorescent vs. Incandescent Extension cord, Light bulb, Y socket, CFL bulb

How do you rate?- "How do you rate?" statements, Smiley faces

Static Electricity- Glass jar with a plastic lid, foil from a candy wrapper, plastic pen or ruler, bare wire, aluminum foil, piece of wool

Pathway- aluminum foil strips, penny, duct tape, d battery, clothespins, rubber band, flashlight bulb, *other sizes of batteries, wooden pencil, paper*

Stickers- 9 inch round balloons, ruler, sewing thread, masking tape, *scissors, water, hand soap, towel, hair dryer, plastic wrap, puffed rice cereal*

Glow Bulb- dishwashing liquid, fluorescent tube, bath towel, plastic report cover, *very dark room, plastic wrap, wool scarf, balloon*

Flashlight - flashlight, aluminum foil strip, duct tape, 2 size D batteries

Make an Electromagnet- battery, wire, steel bolt, switch, paperclips, tape, *scissors*

Simple Circuits- battery, plastic coated wire, bulb, bulb holder, *wire cutters or pliers*

Read a Meter- meter dials, construction paper, fasteners, glue, dial pages worksheet