

Circuits

Day 3

Opening Activities:

Math problems of the day

Share what you learned this week with your group



Activity-Making a switch: “Magic Wand”

Materials:

Popsicle stick, batteries, battery holder, Christmas light, clothespin, tinfoil or conductive tape, wires, electrical tape, masking tape, and rubber bands

Procedure:

1. Get your battery pack, batteries, and Christmas light that you used on Day 2 from one of the program staff members. Make sure the Christmas light still works!
2. Use two small pieces of foil to wrap the ends of the clothespin. The tape should not touch when the clothespin mouth is closed. When the clothespin is squeezed and the mouth is open, the pieces of foil should touch.
3. Use a small piece of electrical tape to attach the red wire from the battery pack to the foil on one side of the clothespin.
4. Use a small piece of electrical tape to attach the extra wire to the other side of the clothespin.
5. Use a rubber band or tape to attach the clothespin to the handle of the Popsicle stick. Make sure that the mouth side of the clothespin is facing into the middle of the Popsicle stick.
6. Connect (with tape or by twisting) the Christmas light to the black wire on the battery pack. Secure the connection with a piece of electrical tape.
7. Use tape or a rubber band to attach the battery pack to the middle part of the Popsicle stick, above the clothespin.
8. Attach the extra wire on the clothespin to the second side of the Christmas light.
9. Use tape to tape down the Christmas light to the tip of the Popsicle stick.

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