



Human Electrical Circuit Activity

This whole-class activity helps students understand how electrical circuits work by acting out the parts of a simple circuit using their bodies.

Materials Needed

- Ball or beanbag (to represent electric current)
- Printed role cards (below)
- Optional: string or paper arrows to show the circuit loop

Instructions

1. Assign students the following roles: Battery, Wires, Switch, and Bulb.
2. Arrange the students in a loop or circle to represent a simple circuit.
3. The Battery begins by 'pushing' the ball (electric current) into the circuit.
4. Students pass the ball along the loop.
5. When the ball reaches the Bulb, the student 'lights up' (e.g. jazz hands or dramatic pose).
6. The current returns to the Battery to complete the loop.
7. If the Switch is 'off' (arms crossed), the current stops and the Bulb doesn't light up.
8. Discuss what happened and why the circuit worked or didn't work.

Learning Intention

We are learning how electrical circuits work and how electricity flows to power things.

Discussion Questions

- What part of the circuit did you play?
- What happened when the switch was turned off?
- Why did the bulb light up?
- What does the ball represent in this activity?





