

# Electricity and Circuits

**Objective:** Learn how to make a simple circuit light up a bulb!

## Materials:

- 1 battery (AA)
- 2 wires with clips
- 1 small light bulb
- 1 switch (optional)
- Safety goggles

## Safety Precautions:

Always wear safety goggles to protect your eyes.

Be gentle with wires to avoid breaking them.

Never touch both ends of the battery at the same time.

## Steps:

1. Get Ready:
  - Put on your safety goggles.
  - Gather your materials.
2. Connect the Battery:
  - Attach one end of a wire to the positive (+) end of the battery.
  - Clip the other end of the wire to the metal part of the light bulb.
3. Complete the Circuit:
  - Take a second wire and connect it from the light bulb to the negative (-) end of the battery.
  - Watch as the bulb lights up!
4. Add a Switch (if you have one):
  - Place the switch between the battery and the bulb.
  - Open and close the switch to see how it controls the light.
5. Test Your Ideas:
  - What happens if you switch the wires?
  - Try using more than one battery.
  - See what happens if you add another bulb.

## Clean-Up:

Turn off the circuit by disconnecting the battery.

Put away your materials neatly.

Make sure your workspace is tidy.