

Bright Sparks: The Electricity Drawing Sheet

Learning objective: To identify and label the components of a simple electrical circuit and recognise common appliances that use electricity.

Follow the steps below to complete your electrical circuit diagram. Use your best scientific drawing skills to ensure all components are clearly connected.

Draw: Draw a clear, neat scientific diagram of a simple series circuit. Use straight lines for wires and clear shapes for the bulb, cell, and switch. Ensure the circuit is a complete loop. Below the circuit, draw two boxes: one for a 'Mains Appliance' (like a toaster) and one for a 'Battery Appliance' (like a torch). Use a sharp pencil to keep your lines clean and labels easy to read.



Label words: Cell · Wire · Bulb · Switch · Circuit · Component

Steps:

1. Step 1: Draw a simple circuit consisting of one cell, one bulb, one switch, and connecting wires. Label each part using the word bank.
2. Step 2: Draw an arrow to show the direction the electrical current would flow if the switch were closed.
3. What must happen to the switch for the bulb to light up? Explain your answer.
4. Draw one household appliance that uses mains electricity and one that uses a battery.

5. Why is it important that the wires are made of metal, such as copper?