

Kit's Circuit Challenge: Building a Bright Idea

Learning objective: To identify and label the components of a simple electrical circuit and understand how they work together.

Kit the fox is building a light-up sign for the BookFlik library. Look at the circuit diagram below. Match the name of each part to the correct arrow on the picture. Then, write a sentence to explain what each part does using the sentence starters.

Word bank: Battery · Bulb · Wire · Switch · Circuit

1. 1. Label the diagram: Look at the arrows pointing to the power source, the path for electricity, the light, and the part that stops and starts the flow. Write the correct word from the word bank next to each arrow. (4 marks)

2. 2. The battery is the _____ of the circuit. It gives the energy to make things work. (1 mark)

3. 3. The wire is like a _____ for the electricity to travel along. (1 mark)

4. 4. What happens to the bulb if the switch is turned 'off'? The bulb will _____ because the circuit is _____. (2 marks)

5. 5. Why do we need a complete loop for the bulb to glow? Use the word 'path' in your answer. (2 marks)

Draw: Draw a simple circuit with one battery, one bulb, and one switch. Use a straight line to show the wire connecting them all in a loop.



Extension challenge: If you added a second bulb to Kit's circuit, do you think the first bulb would get brighter or dimmer? Talk about your idea with a partner.