

Kit's Clever Circuit Design

Learning objective: To identify and describe the components needed to build a simple electrical circuit.

Hello! Kit the fox needs your help to plan a new invention. Look at the parts of a circuit and fill in this design sheet. Read the word bank if you get stuck. Write clearly and use your best ideas!

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

1. My invention: What are you going to make? (e.g., a bright torch or a warning light) (2 marks)

2. The power source: Which part will provide the energy for your circuit? (2 marks)

3. The component: Which part will turn on and light up? (2 marks)

4. The control: How will you turn your circuit on and off? (2 marks)

5. Safety check: Why is it important to keep wires tidy and safe? (2 marks)

Extension challenge: Draw a picture of your circuit below. Use a straight line for the wire and draw a small circle for the bulb. Label your parts.