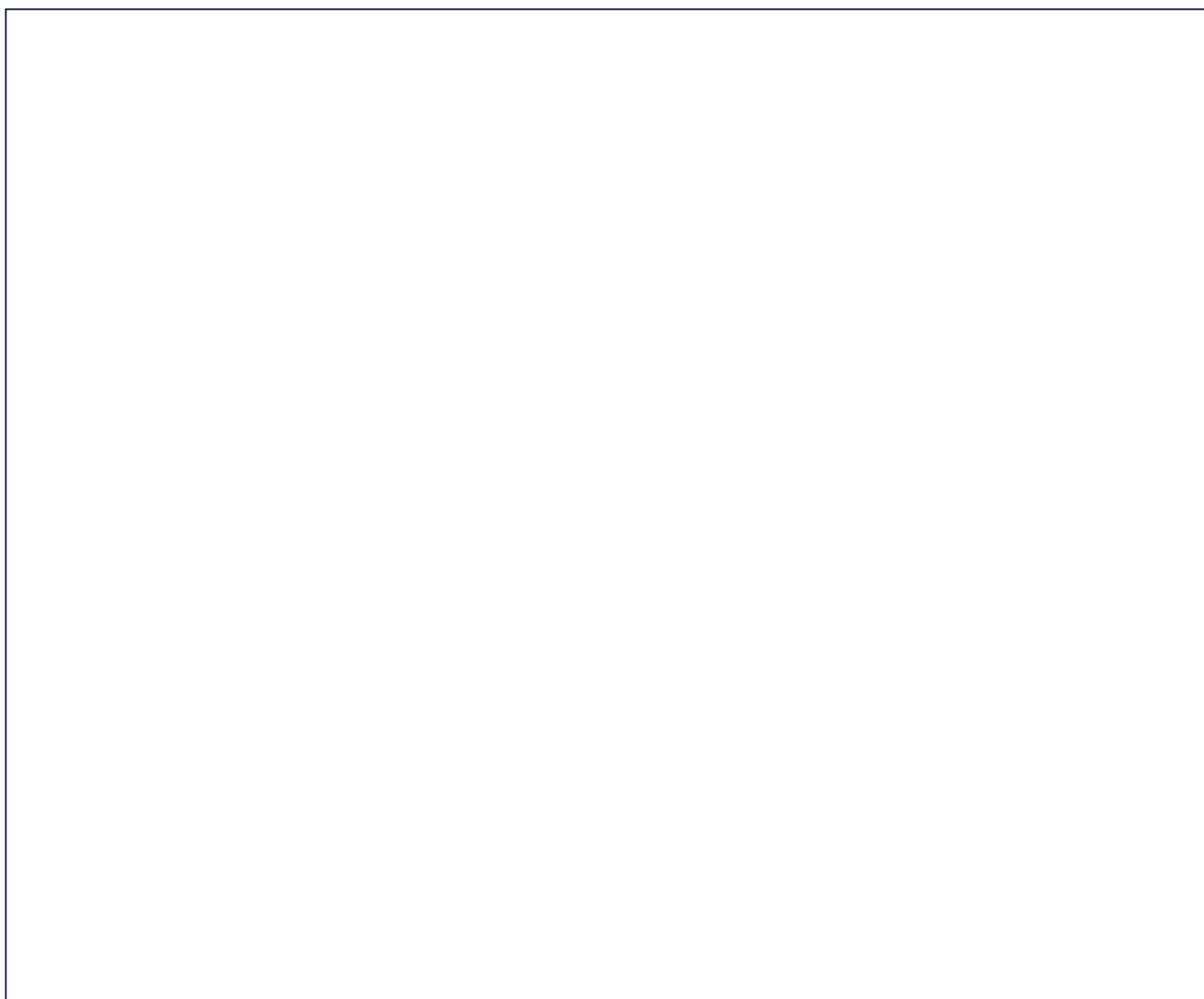


Nova's Starlight Circuit Challenge

Learning objective: To identify and represent the components of a simple series circuit using standard symbols and explain how changing components affects the brightness of a bulb.

Use the drawing space provided to create a clear circuit diagram. Use standard scientific symbols for each component. Ensure your lines representing wires are straight and meet at the corners.

Draw: Create a neat, technical circuit diagram in the centre of the page. Use a ruler to draw sharp, straight lines for the wires. Use the standard scientific symbols: a circle with a cross inside for the bulb, two parallel lines of different lengths for the cell, and a small gap with a lever for the switch. The style should be clean and precise, similar to a textbook diagram.



Label words: Cell · Battery · Bulb · Switch · Wire · Symbol · Closed Circuit

Steps:

1. Draw a circuit diagram containing one cell, one closed switch, and one bulb connected in a simple series loop.
2. Label each component on your diagram using the correct scientific names from the word bank.
3. Explain what would happen to the brightness of the bulb if you added a second cell to the circuit.
4. What is the function of the switch in your drawing?
5. If the bulb in your circuit stopped working, suggest one reason why this might happen.