

Task 1: Identifying the components

- 1. Identify the components of the circuit.
- 2. Label the components in the circuit diagram.
- 3. Explain the function of each component.
- 4. Describe the flow of current in the circuit.



Task 2: Analyzing the circuit

- 1. Calculate the current flowing through the circuit.
- 2. Determine the voltage across the bulb.
- 3. Find the power dissipated by the bulb.
- 4. Explain the relationship between current, voltage, and power.



Task 3: Designing a circuit

- 1. Design a circuit that meets the requirements.
- 2. Draw the circuit diagram.
- 3. Explain the design choices.
- 4. Describe the operation of the circuit.

