

REVISION

QUESTION

1. A circuit is shown in the diagram below. The circuit contains a battery, a lamp, a switch and a buzzer. The switch is currently open.

2. Explain what happens when the switch is closed.

3. Draw a circuit diagram showing a battery, a lamp, a switch and a buzzer connected in a parallel circuit.

4. Explain how a parallel circuit is different from a series circuit.



ANSWER

- When the switch is closed, the circuit is completed and current flows from the battery through the lamp and the buzzer. Both the lamp and the buzzer will operate.
- In a parallel circuit, the components are connected to the battery in separate branches. This means that the current can flow through one or more components at the same time. In a series circuit, the components are connected in a single loop, so the current must flow through all components in order to return to the battery.
- A circuit diagram showing a battery, a lamp, a switch and a buzzer connected in a parallel circuit. The battery is connected to two parallel branches. The top branch contains a lamp and the bottom branch contains a buzzer. A switch is connected to the battery and the lamp.
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