What affects the performance of

components in a circuit?

Key Vocabulary

series circuit

cell/battery

bulb/lamp

current

voltage

complete circuit

incomplete circuit

switch

buzzer

independent variable

dependent variable

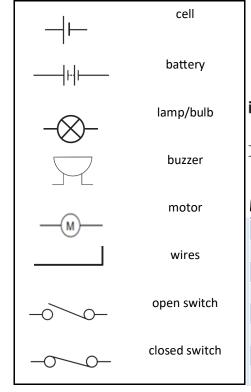
controlled variables

repeatability

accuracy

evaluate

Circuit diagram symbols



Key Knowledge

- A series circuit is one in which all the components are connected in one continuous loop.
- A series circuit has a cell and wires, plus components such as a bulb, a buzzer and a switch.
- Each component in a circuit diagram is represented by a circuit symbol.
- Current is the flow of electricity in a circuit.
- Voltage causes the current to flow.
- For a circuit to be complete, all the components, including a cell, must be connected by wires and the switch must be closed.
- An incomplete circuit may have a break in the wires, a switch may be open or the cell may be in the holder the wrong way.
- The current does not flow at all in an incomplete circuit.
- The more components there are in a circuit, the dimmer the bulbs and the quieter the buzzers.
- The more components there are in a circuit, the more difficult it is for current to flow.

