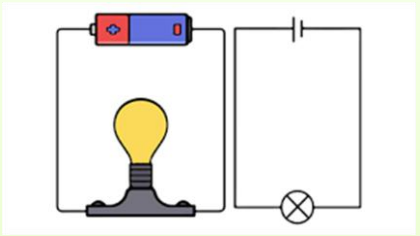
Knowledge Organiser

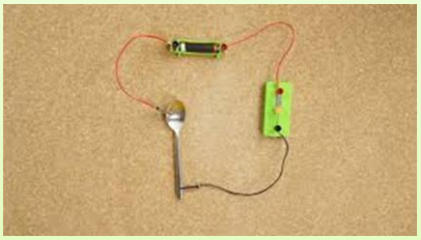
Palace Fields Primary School

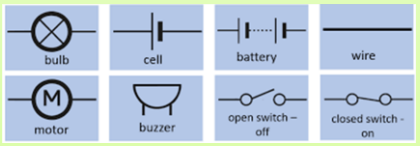
Key Vocabulary

1. **Electricity** – A form of energy that can flow through wires and power devices.
2. **Circuit** – A complete loop that allows electricity to flow.
3. **Battery (cell)** – A device that provides electrical energy to a circuit.
4. **Wire** – A metal conductor that allows electricity to pass through it.
5. **Bulb (lamp)** – A component that lights up when electricity flows through it.
6. **Switch** – A device that opens or closes a circuit to turn electricity on or off.
7. **Conductor** – A material that allows electricity to flow through it easily (e.g. metal).
8. **Insulator** – A material that does not allow electricity to flow through it easily (e.g. plastic).
9. **Series circuit** – A circuit where components are connected in a single loop.
10. **Parallel circuit** – A circuit where components are connected on separate branches.

Electricity







Sticky Knowledge

1. Electricity can only flow when there is a complete, closed circuit with no breaks.
2. A battery (cell) provides the energy needed to push electricity around a circuit.
3. In a series circuit, if one component stops working, the whole circuit stops.
4. In a parallel circuit, components can still work even if one part is broken.
5. Conductors (like metals) let electricity flow easily, while insulators (like plastic) keep us safe by stopping the flow.