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| Vocabulary |
| Circuit | A complete and closed path where a circulating current can flow. |
| Conductor | A material or device which allows heat or electricity to carry through. |
| Insulator | Any material that electricity cannot pass through or along. |
| Static electricity | A stationary (still) electric charge, usually produced by friction, which causes sparks or crackling or the attraction of dust or hair. |
| Appliance | An electrical appliance is a device that uses electricity to perform a function. |
| Cells | An electrical cell is a device that is used to generate electricity. |

Objectives

-identify common appliances that run on electricity

-construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers

-identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery

-recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

-recognise some common conductors and insulators, and associate metals with being good conductors



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| Sticky knowledge |
| Electrical current flows well through some materials, called electrical conductors, and poorly through other materials, called electrical insulators. |
| Current electricity is the flow of charged particles called electrons around a circuit. |
| Metals are good electrical conductors. |
| More than one cell lined up to work together is called a battery. |
| Electrical current can flow if there is a complete circuit. |
| Wires – which contain a conductor inside them, usually made of metal – can allow electrical current to flow around a circuit. |
| When electrical current flows through a circuit, components within that circuit – such as buzzers which make a noise and bulbs which emit light – begin to work. |
| A switch functions by completing or breaking a complete circuit. |

In which circuit will the bulb light up?

