

Year 4 Science Knowledge Organiser - Electricity

Vocabulary	
cell	one battery
electrical conductor	these let electricity pass through
electrical insulator	these don't let electricity pass through
electrical	a form of energy
switch	a component that can be used to break a circuit

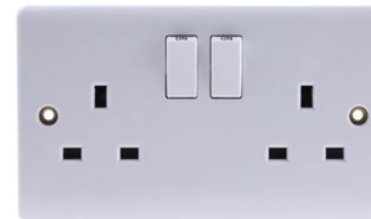
Key Information
Some electrical devices plug in to the mains and others run on batteries.
An electrical circuit consists of a cell or battery connected to a component using wires.
If there is a break in the circuit, a loose connection or a short circuit, the component will not work.
A switch can be added to the circuit to turn the component on and off.
Metals are conductors of electricity.
Plastic, glass, wood and air are electrical insulators.
Mains electricity is the electricity that is delivered to homes and businesses through an electric grid.
The electric grid in the United Kingdom is called the National Grid
Damaged electrical items can cause fires



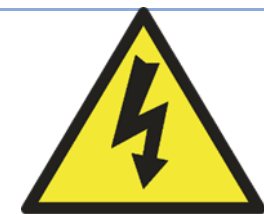
pylons



plug



plug socket



Danger
Electric shock risk

danger sign

