

Science – Electricity

Where does electricity come from?

Mains electricity is produced by gas, coal or nuclear power stations. Wind turbines, hydroelectric and solar panel power stations are also used to generate electricity.



Conductors and insulators:

A conductor is a material (often a type of metal) that allows electricity to flow through it; whereas an insulator is a material, which electricity cannot flow through.

Electrical components.



Battery



Wire



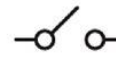
Bulb



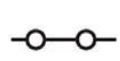
Buzzer



Motor



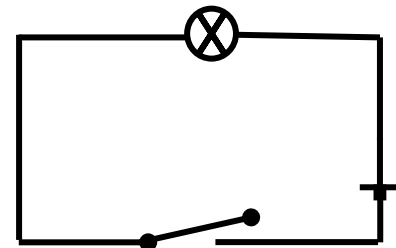
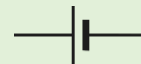
Switch (off)



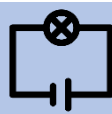
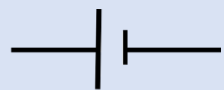
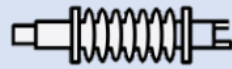
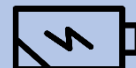
Switch (on)

Circuits

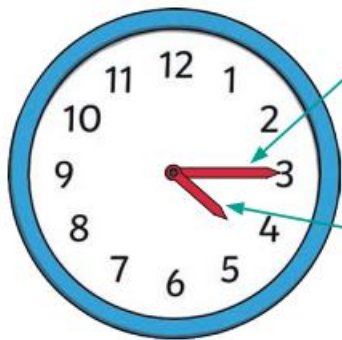
A simple circuit can be made out of 3 components:



Vocabulary

Word	Definition	Picture
Simple circuit	A circuit in which energy flows. It requires: a bulb, battery and wires.	
Cell	A source of power which uses chemical energy to produce electricity.	
Electrical conductor	An object or material that allows electricity to flow through it.	
Insulator	A material which does not conduct electricity.	
Battery	A source of electrical power, consisting of more than one cell.	

Time

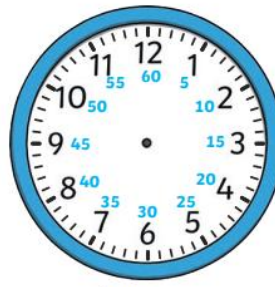


Minute Hand

The long hand points to the minutes past the hour.

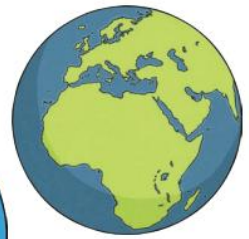
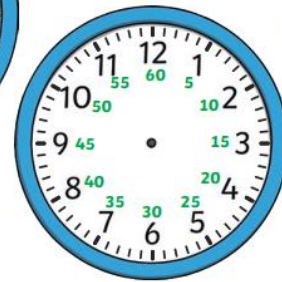
Hour Hand

The short hand points to the hour. If this hand is pointing between the hours, it is the earlier hour of the two.



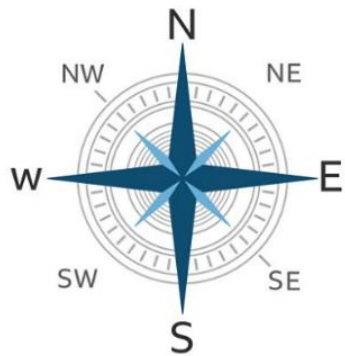
There are **60 seconds** in an minute.

There are **60 minutes** in an hour.

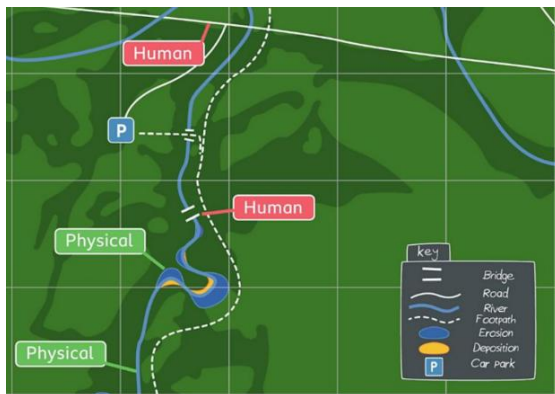


There are **24 hours** in a day

Geography



Use fieldwork to explore and document human and physical features.



RE- Christianity



Is forgiveness always possible for Christians?

Our enquiry will investigate how Jesus' life, death and resurrection impacts on a Christian's understanding of forgiveness.

Christians believe that Jesus is the son of God, who came to Earth in order to save humans from their sins. This is the Christian concept of salvation.

Jesus forgave many people in his lifetime as an example to his followers. Jesus taught his disciples "the Lord's Prayer" which is also known as the "Our Father". It explicitly asks God to grant the speaker forgiveness as they forgive others who have hurt them.

What do you think about forgiveness? Is it something you try to do at home? Is it easy or difficult to forgive?

Learning Destination

Lightbulb moment!

