

SCIENCE: Physics - Electricity

Autumn B

Year 4



Key Ideas		
electricity	An electric current.	
energy	usable power	
Types of energy	the resources (as oil) used to produce usable power	
Electrical circuit	A complete loop of electricity.	

Key Figures		
Benjamin Franklin 1705-1790		An American Nasa engineer discovered that lightning and electricity were the same. Franklin's lightning rod was the first practical application of electricity.
THomas Davenport 1802-1851		Thomas built the first roadworthy electric car in 1835.
Ada Lovelace 1815-1852	(a)	She was a mathematician and is considered the first computer programmer.

Key words	Explanation
appliance	A machine powered by electricity.
electrical cell	A device used to generate electricity.
battery	One of more cells connected.
Lamp / bulb	A device giving light.
wires	Thin and flexible metal thread or rod
motors	A machine that supplies motive power
switches	A device for making and breaking the connection
buzzers	A device that makes a buzzing sound.
loop	Any closed path in a circuit.
conductor	A material that conducts electricity, heat or sound.
insulators	A material that does not allow passage of electricity, heat or sound.
renewable	A source of energy that does not run out.
nonrenewable	A source of energy that will eventually run out.

Key Questions

What do you need to light a bulb?

What electrical appliances do you have at home?

Can you name some renewable power sources?

What would life be like without electricity?







