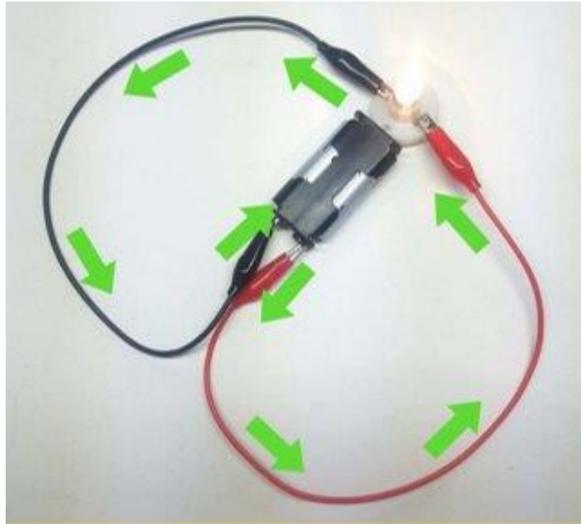
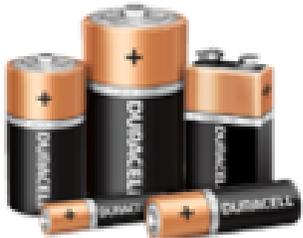


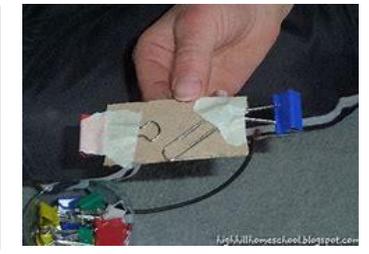
Science



Key Vocabulary

Key Word	Definition
Circuit	A path for electricity to flow through with a power source
Component	Things that can be used in a circuit such as a bulb, switch, battery or motor
Conductor	Allows electricity to pass through
Insulator	Does not allow electricity to flow through
Bulb	A source of light in a circuit
Battery	A source of stored electricity that can be used in a circuit
Symbol	How a component can be drawn in a circuit
Electrical appliance	An object that needs or uses electricity to work. This can be plugged in or use batteries
Electricity	A source of energy that can produce heat, light, sound or movement

DT

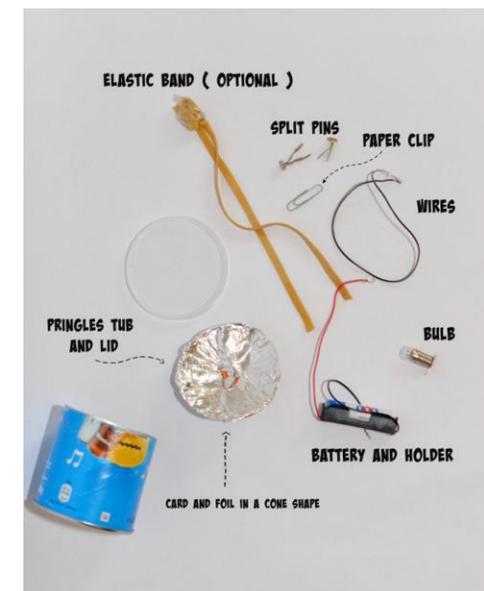
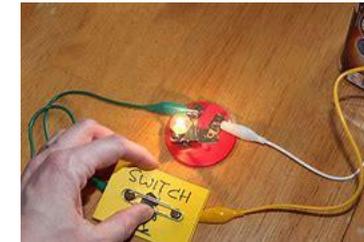


In DT, the children will use the knowledge gained about circuits in science and use this to create their own functioning torch.

The children will sketch ideas for their torch, considering the appropriate materials that could be used so that it is fit for purpose. They will consider the function of the torch as well as making it look appealing to the user.

They will investigate how to make a switch out of different materials, using their knowledge of electrical circuits and conductors.

Once the children have made their torch, they will evaluate its effectiveness against the intended purpose.



In Science this half-term, Year 4 will be learning about electricity.

Children will recognise which appliances use electricity and how they can keep safe around electricity and spot potential hazards.

They will use different components to make a simple circuit and understand why a circuit may not work.

The children will also learn about conductors and insulators and experiment with different materials to see if electricity will flow through.

They will then use their knowledge to create a circuit to power a device.

Electrical circuits

A circuit is made up of different components which needs to be complete in order for electricity to flow through. Each component can be represented by a symbol when drawing the circuit. A circuit needs a power source (such as a battery) which can also be know as a cell.