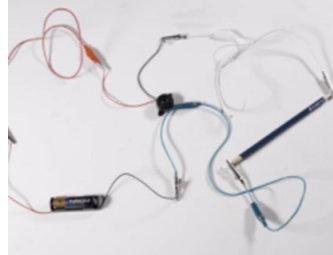




Word	Definition
copper	A reddish metal material that is good at letting heat and electricity flow through it. It is often used to make wires and pipes.
graphite	A conductive, black carbon material that is used to make pencil leads.
innovative	Introducing or using new ideas or ways of doing something.
LED	A light emitting diode which lights up as electricity passes through.
modify	Changing something to improve or fix it.
parallel circuits	An open circuit where the current follows two or more paths.
component	One of two or more parts of which something is made.
product	A thing that is the result of a process.
client	A person or company who has requested a service or job from someone to complete a specialist task.
fit for purpose	Well equipped or well suited for its designated role or purpose.

How can we make Christmas cards light up

Key Knowledge and Concepts



Electricity needs a complete circuit to flow around.

Switches work by closing the gap in a circuit.

Bulbs, cells, buzzers and switches are all types of components.

In a graphite circuit, if the battery is moved away from the LED, the brightness weakens,

A design should suits its intended recipient.

An LED should be placed with the positive legs nearest the positive side of the battery.



 lamp (lighting)	 wire	 open switch
 cell	 battery	 closed switch

You will learn about electrical circuits and how to integrate these into a Christmas card that you have developed for purpose.