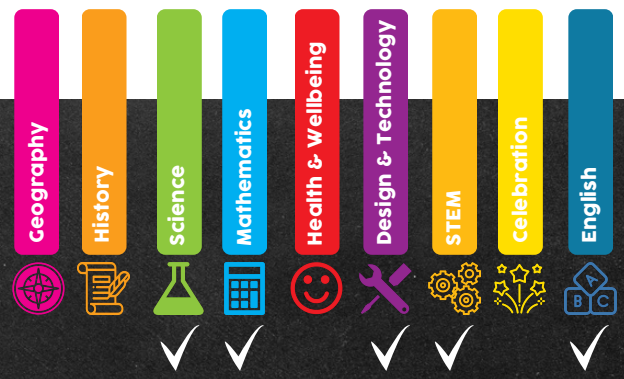


Supreme Incursions

Playdough Circuit



Adult Guidance



30-45 Minutes



Grade Foundation+

We all love Playdough. But did you know that it is a great conductor of electricity. This means that we are able to create amazing sculptures that light up! But what does 'conductor' mean? Lets find out!

The aim

- To learn about **conductors** and the basic principles of **simple circuits**.
- To invent, design, collaborate and create sculptures that light up!

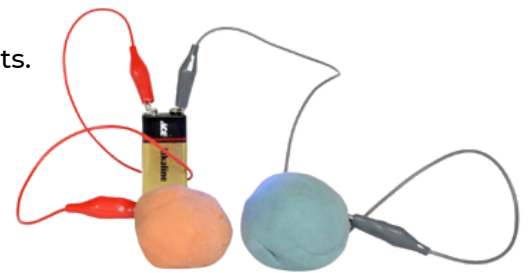
What you will need

1 X 9V Battery (per group)

Alligator Clips (2 per group)

LED lights (3-4 per group)

Playdough (A variety of colours each)



Watch the video

Scan the QR code to watch the instructions



Follow these steps

Step 1 First, take your **battery** and attach your **2 wires**. One to the positive terminal (+) and one to the negative terminal (-).

Step 2 Make two small lumps out of the Playdough (**close together but NOT touching**). Connect the battery to the playdough by pushing one end of one wire into a lump of playdough. Repeat with the other wire.

Step 3 Ensure that the playdough is close together. One LED 'leg' is longer. Push this leg into the playdough that is connected to the positive side (+). Poke the shorter leg into the negative side (-).

Step 4 **Now let's get creative.** Work with others to design and draw some creative sculptures that you would like to see light up! Use our video above for inspiration! Next, check out our 'insulating playdough' resource.

The Science behind it

A **conductor** is something that allows the **flow of electricity**. Silver, steel and copper are some great conductors! That's why we must have metal on our wires and metal attachments on batteries!

A **simple circuit** will only work when it is complete i.e. when everything is connected and there are no gaps ('breaks').

To learn more about circuits check out our resource 'Make a simple circuit'.