

PLAY DOUGH CIRCUITS

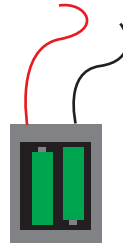
You will need:



CONDUCTIVE
PLAY DOUGH



INSULATING
PLAY DOUGH



BATTERY
PACK



LED - LIGHT
EMITTING DIODE



SHAPE
CUTTERS

This project is part 3 of 3 worksheets exploring circuits and electrical conductivity. Now we use the dough you created in the last worksheets to create a working electrical circuit.

**ADULT SUPERVISION
RECOMMENDED FOR
THIS PROJECT**

Method:

Take 2 lumps of the conductive dough. Push the wires from the battery into each one. Push each leg of the LED into each lump.

Hint:

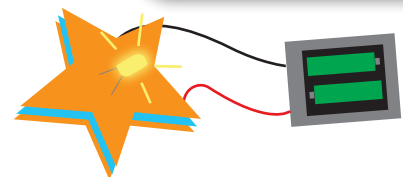
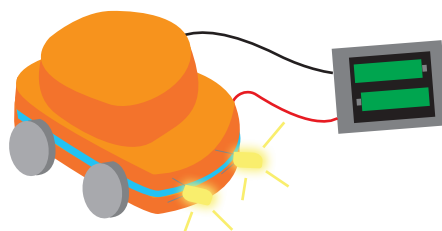
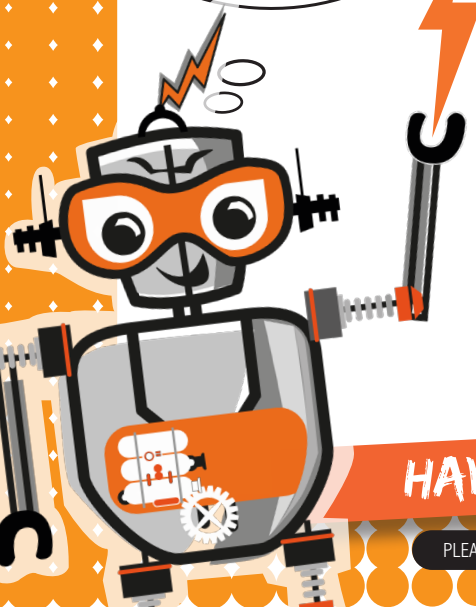
Electricity only flows one way through an LED, so if the light doesn't come on, take it out, turn it around and poke the legs back into the dough

**What happens if
you press the 2
pieces of dough
together?**

**Try placing a
piece of the
insulating
dough between
the pieces of
conducting
dough. What
happens now?**

The conductive play dough that you have made contains salt dissolved in water which conducts electricity. The insulating play dough contains sugar which does not conduct electricity.

Now with this knowledge why not get creative and see what you can make using your dough and LEDs. Use shape cutters or sculpt your own...



HAVE FUN WITH STEM AT HOME

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