TEST YOUR SKILL
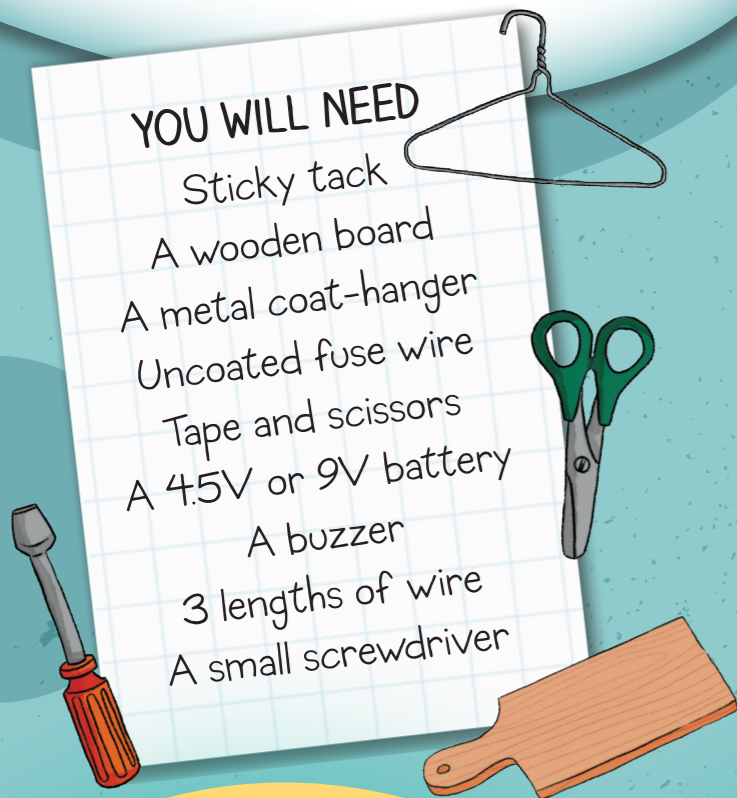
Simple circuits can be used in a lot of ways. Test your circuit-building skills by making an electronic game.

BECAUSE...
When the loop touches the coat-hanger, the buzzer sounds because the loop acts like a switch. When the loop is not touching the coat-hanger there is a gap in the circuit and the buzzer does not make a noise.

YOU WILL NEED
Sticky tack
A wooden board
A metal coat-hanger
Uncoated fuse wire
Tape and scissors
A 4.5V or 9V battery
A buzzer
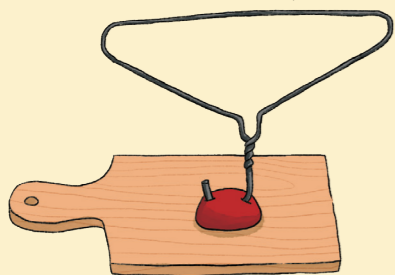3 lengths of wire
A small screwdriver

THINK about how each part of the circuit is linked together.
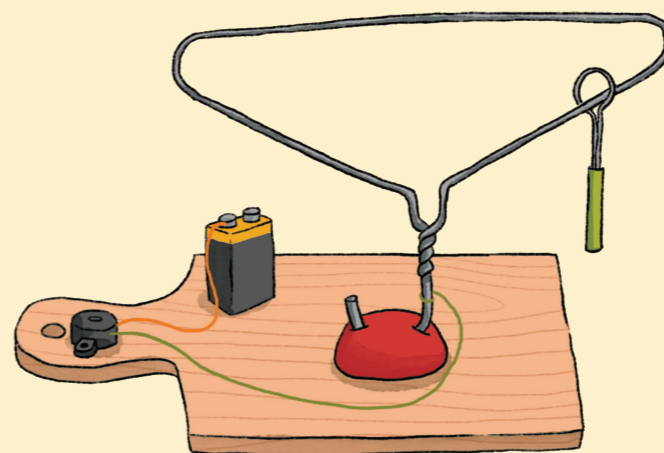
HOW STEADY IS YOUR HAND?

1 Put a lump of sticky tack onto the middle of the wooden board. Push the hook of the coat-hanger into it so that it stands upside down.

2 Loop the fuse wire through the coat-hanger and twist the ends into a handle, taping them up to hold it secure.

3 Connect one wire from the buzzer to the coat-hanger, and the second wire from the battery to the buzzer.

4 Twist the third wire from the battery to the top of the handle of the fuse wire loop. Add some tape to the bottom of the coat-hanger as a resting place for the loop. Can you move the loop around the coat-hanger without the buzzer sounding?