

# **Power Challenge**

# Activity 1.2: Paper circuits

#### You only need three basic things:

- · Coin battery (the generator)
- Copper tape (the conductive path)
- · LED (the load)

#### Can you create a simple circuit to turn the lights on? It's as easy as one, two, three!

Create a path for electricity to move from the power source that generates electricity, to the load that uses the electricity.

### **Create** your circuit

#### Step 1

Draw a path on the image that starts at point A, connects to the LED icon, and ends at point B.

## Step 2

Use the copper tape to cover the path you've drawn. Make sure you leave a gap where the LED symbol is.

it into a corner shape.

Bend the legs of the LED so they're flat. Attach the LED to your circuit, on top of the LED icon.

Did you know? Materials that let

electricity flow through them are called conductors. Materials that do not let electricity flow through

them are called insulators.

Your LED has positive and

# Step 4

Place the battery on point B, on top of the copper tape.

## Step 5

Fold the corner of your page so that the copper tape on point A (the positive side of the circuit), touches the positive side of the battery.

#### Did you manage to turn the lights on?

No light? No worries! Try checking that your LED and battery are the right way around so the circuit flows from positive to negative.







