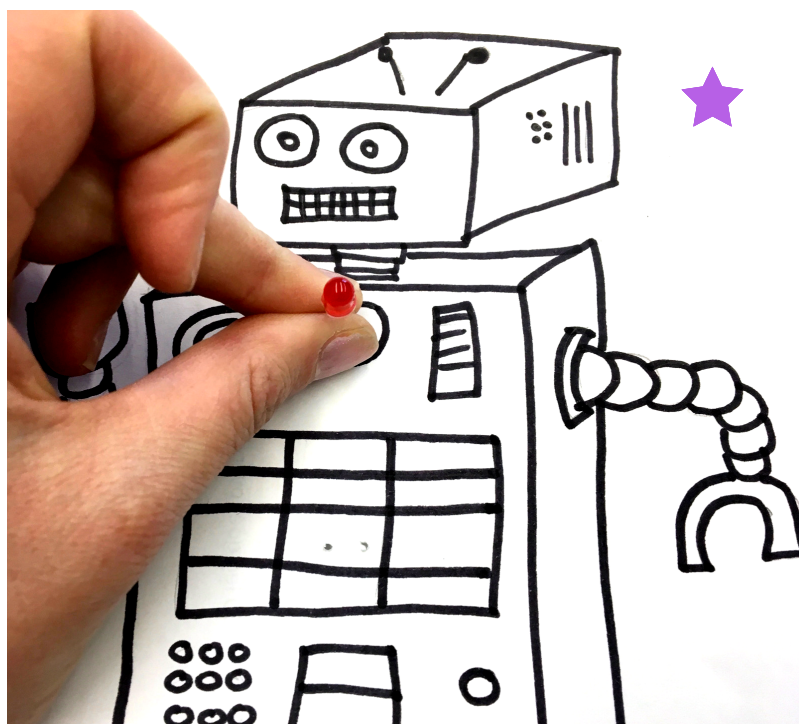


PAPER CIRCUITS

1. GET STARTED!

Fold your piece of paper in half.
The circuit will go on the inside
of the page, and your design
will go on the blank page in
front.



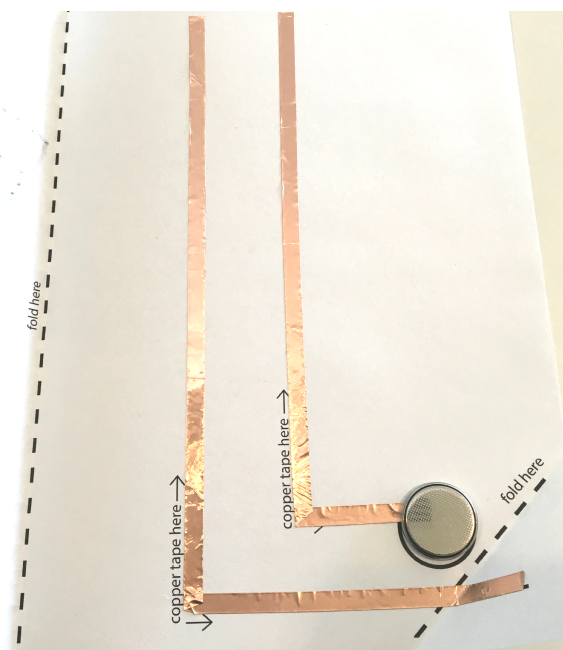
2. DESIGN & DRAW A PICTURE THAT WILL LIGHT UP

Note where the three LEDs will
go on the front page. Imagine
what the LEDs might be in your
drawing (they could be stars,
buttons on a robot, traffic lights...
anything you can think of).

3. MAKE YOUR CIRCUIT WITH COPPER TAPE

Once you've finished your
drawing, open the paper up
again. Stick the copper tape
along the black lines.

The copper tape is
conductive: it will carry the
power from the battery to the
LEDs. One line carries the the
positive (+) charge, the other
carries the negative (—).

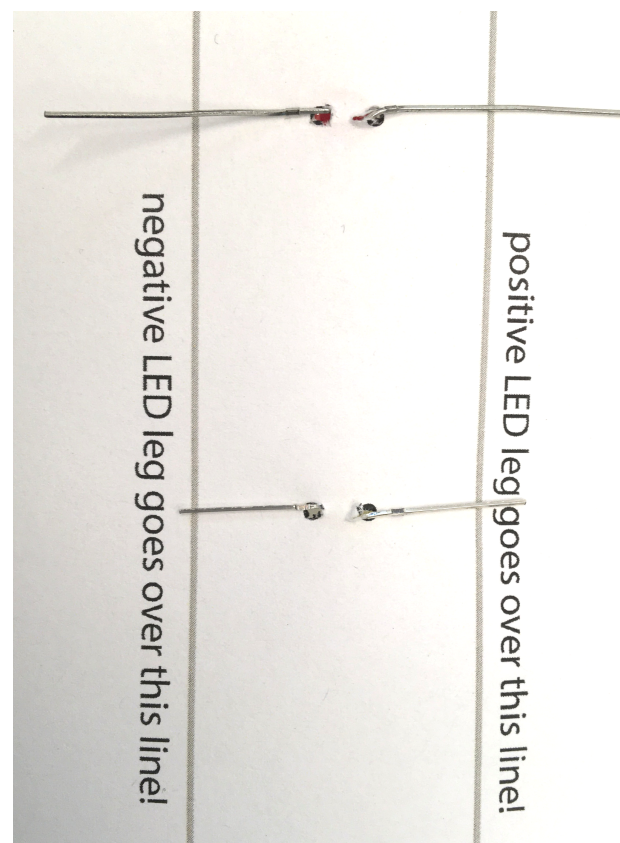
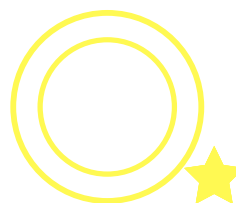
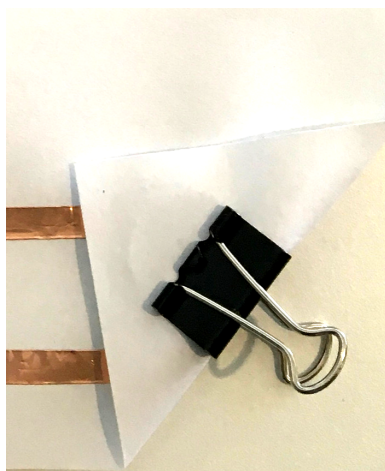


The long
LED leg is
positive
+

—

4. ADD THE BATTERY

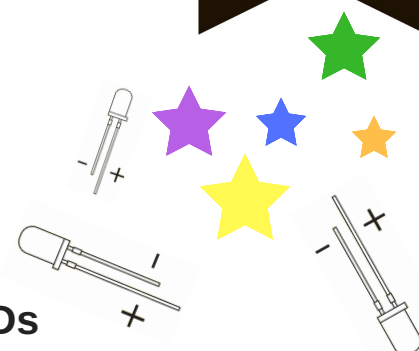
Put the battery + side down on the circle. Fold the corner upwards and secure it with a clip.



5. ADD THE LEDs

One at a time, add your LEDs. Poke the legs through the holes on the front page of the paper, then bend the legs away from each other so they sit over the grey line at the back of the page.

Make sure the the + leg is on the grey 'positive' line, and the — leg is on the grey 'negative' line! You might like to test each LED as you go.



6. TEST YOUR CIRCUIT

To test your circuit fold over your paper, and press down on both sides of an LED. It should light up! If not, check that the battery is connected the right way, and make sure the LED legs are touching the correct line.

