

STEP 1 - COLLECT

1

Don't use all the copper tape up, save some for your card!

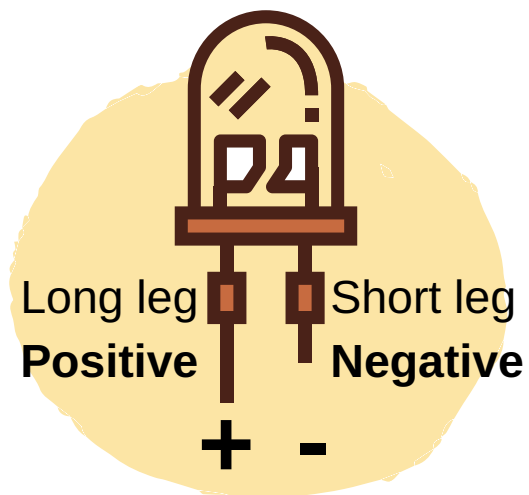
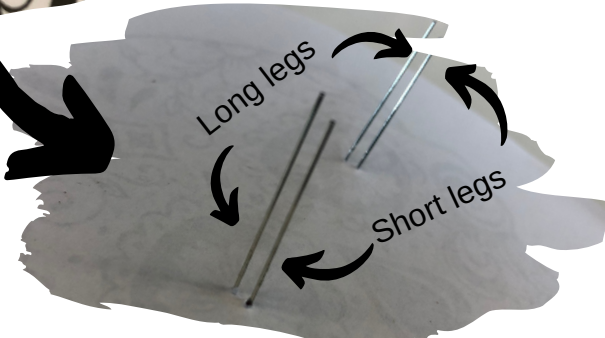


Before you start gather up the sheets, the copper tape, the lights and the battery. You should decide now if you want to do the cat design or the skull design. You may also want to colour your chosen design now, since it'll be much harder once you put the lights in!

2



Next stick your LEDs into the eyes of the design. Make sure you line up the short legs on one side and the long legs on the other side.



STEP 2 - CONNECT

3

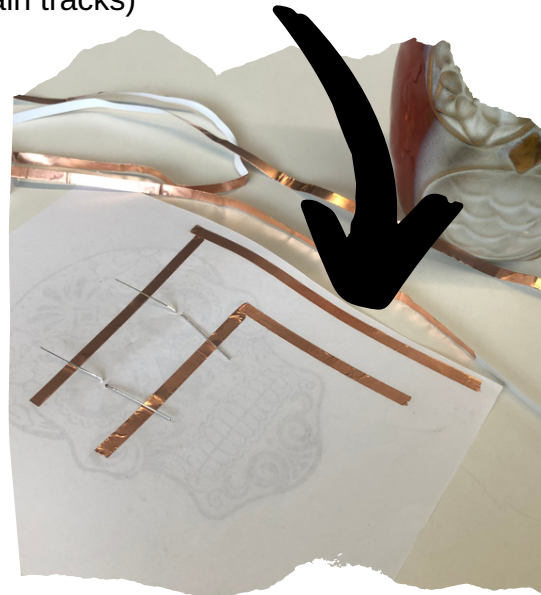
You can remove the LEDs to make this part easier



If you find it hard to put the copper tape down with the LEDs on the other side of the paper then take the LEDs out and then place the copper tape.

Now place the copper tape down next to the LED legs.

The aim is to get a shape like this (Sort of like train tracks)



Don't cut the copper tape, fold it!
Fold the copper tape up then down.

Then repeat for the top line!

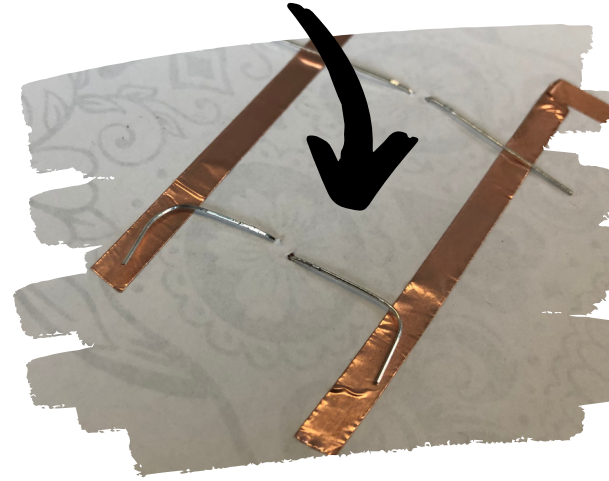


STEP 3 - TEST

4

Once you've got the copper tape down you'll want to test the circuit. Bend the LED legs to try and get as much contact as possible between the LEDs and the copper tape!

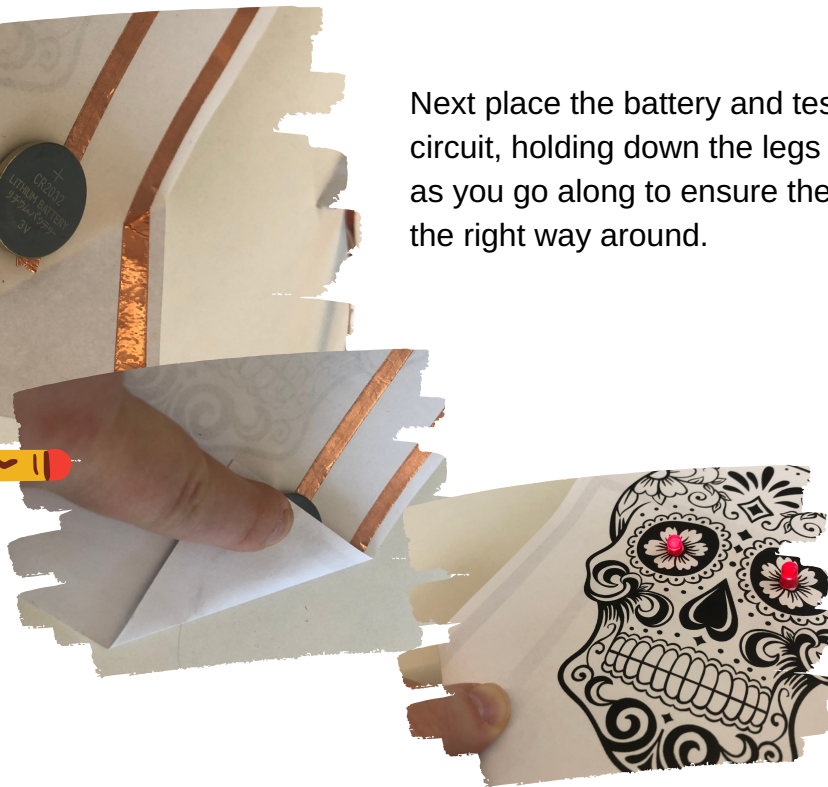
You may need an adult to help you bend the metal



5

Next place the battery and test your circuit, holding down the legs of each LED as you go along to ensure the legs are on the right way around.

Always test your circuit before sticking it down.



STEP 4 - FINISH

6

The sticky side of the copper tape is a little conductive



After that stick the LEDs legs down with the left over bits of copper tape.

7

Pretty cool!
What's next?



What if my circuit doesn't work?
Here are some common problems and fixes:

If none of your lights turn on then you've got the battery around the wrong way!

If some of your lights turn on then the other lights are having connection issues. You may need to hold their legs down until you find the perfect position for them to sit in.

