

# First Copper Tape Circuits

## MATERIALS

1 coin battery (CR2032)

Copper tape

LEDs

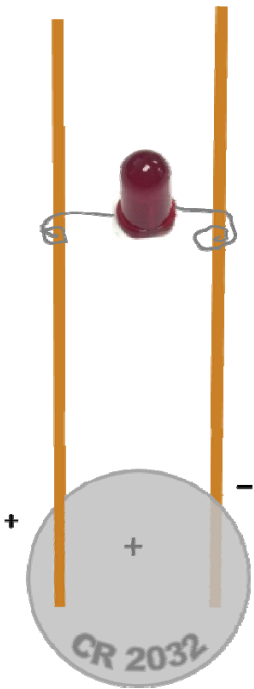
2 red

1 green

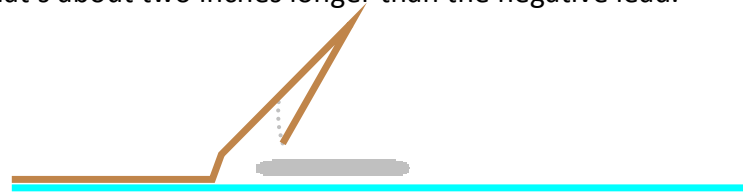
2 yellow

the

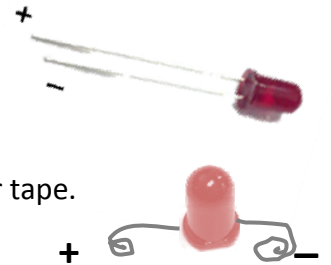
Use copper tape to create circuits.



1. Place a strip of copper tape for the negative lead on template.
2. Place the battery on top of the negative lead with the words side up.
3. Cut a strip for the positive lead that's about two inches longer than the negative lead.
4. About an inch from one end fold the copper tape sticky side to sticky side so that the shiny side of the tape touches the top of the battery.
5. Place the positive lead on the template.
6. Notice that one leg of an LED is longer than the other.



This is the anode or positive leg.

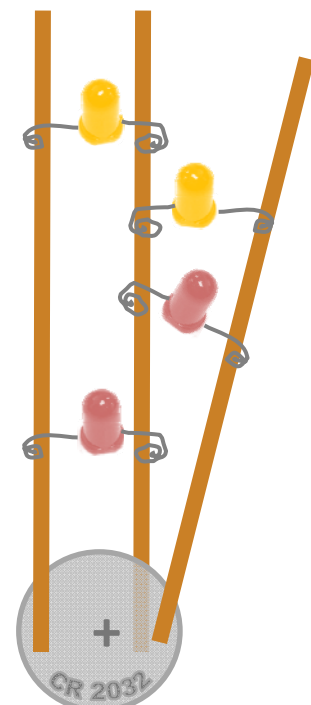
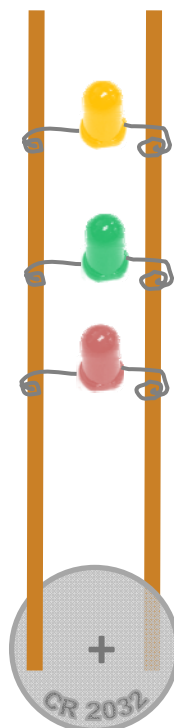


7. Bend the legs of the LED to create more surface to make contact with the copper tape. (Remember which leg is the anode.)
8. Use clear tape to secure the LED to the copper tape.

## EXTEND -

Add more LEDs. Create circuits that look similar to these.

Observe which arrangements light all the LEDs.



Design a circuit that will light the five corners of the star and use LEDs of at least two different colors.

