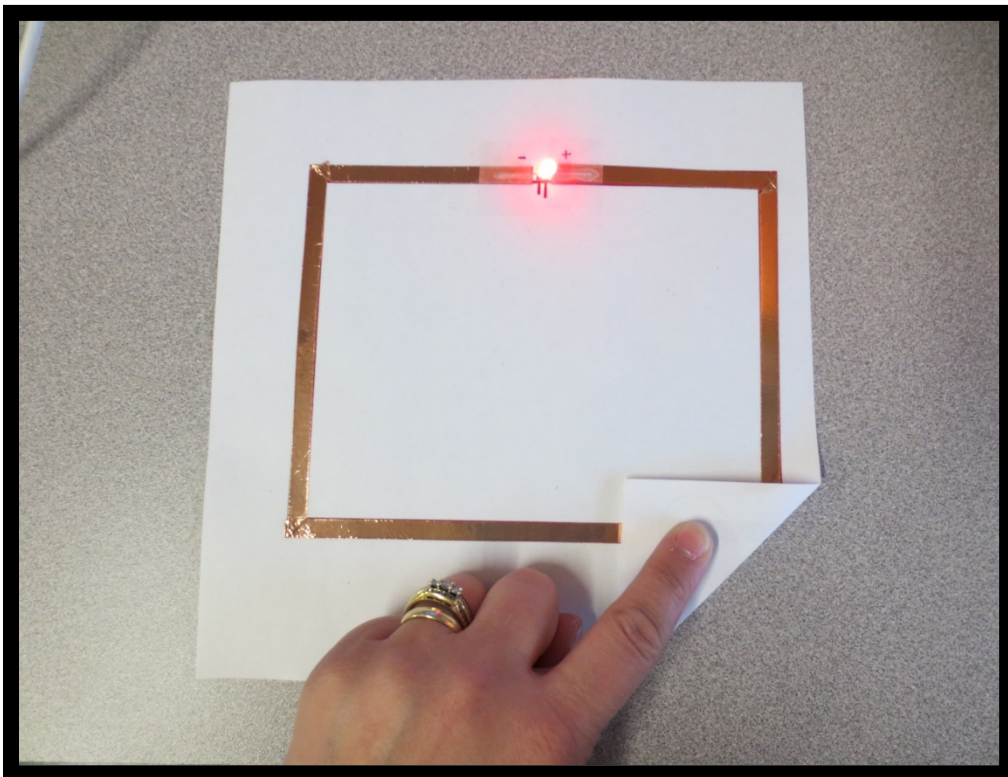


# PAPER CIRCUITS

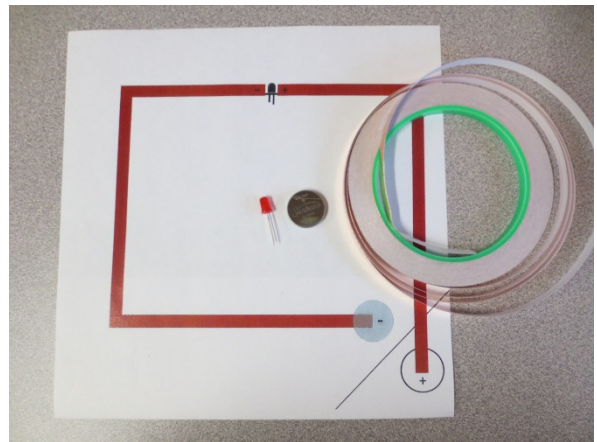
*Introduction to electricity concepts.*



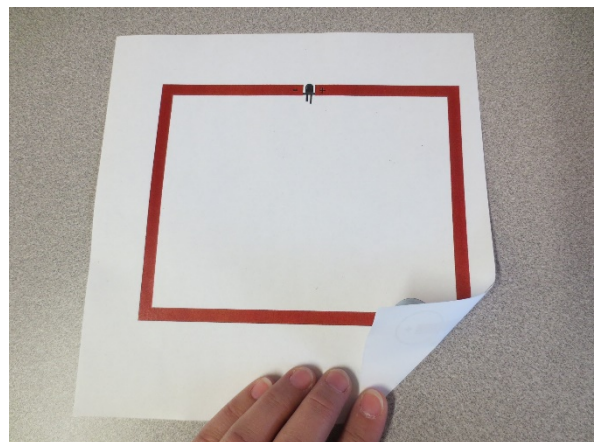
## Tools & Materials:

- CR2032 Watch batteries
- Paper Circuit template
- Assorted LED mini lights
- Copper foil tape or Foil insulation tape
- Scotch tape
- Good quality scissors

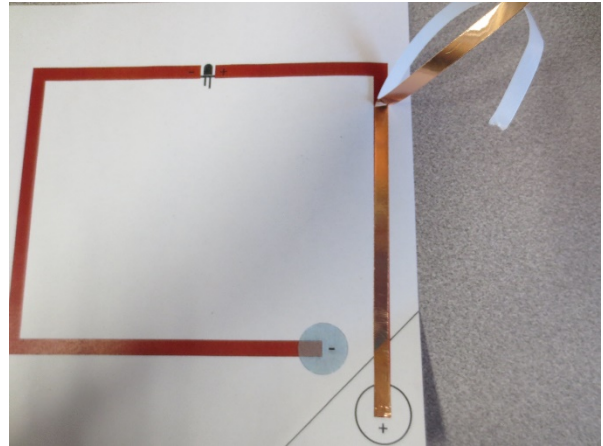
### 1. Gather Materials



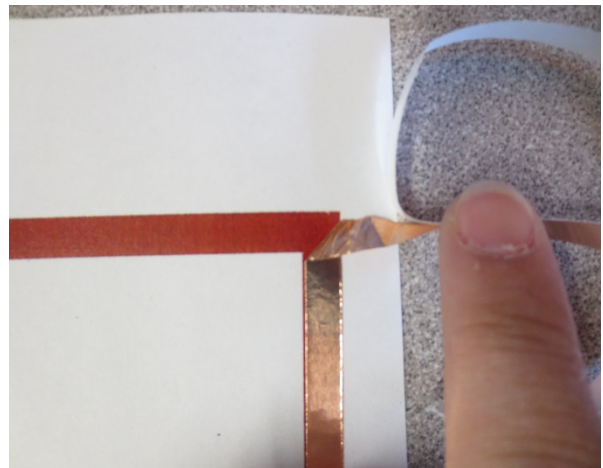
2. Fold Bottom right corner of paper template along the printed black line.



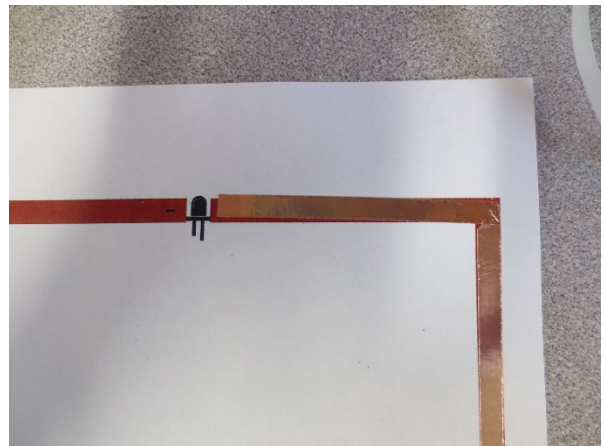
3. Peel backing off of the conductive tape and place on the paper template starting on the positive side of the circuit. Smooth the tape down as you go & stop just before you get to the corner.



4. Fold the conductive tape over on itself and press down to make a 45° angled corner.

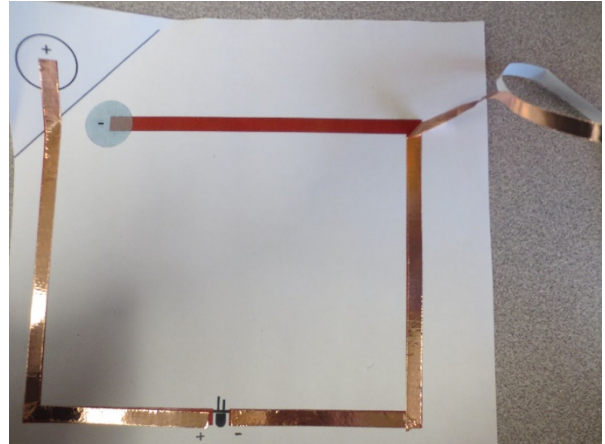


5. Continue to smooth the tape down as you get to the LED symbol, then cut or tear the conductive tape to complete this half of the circuit,

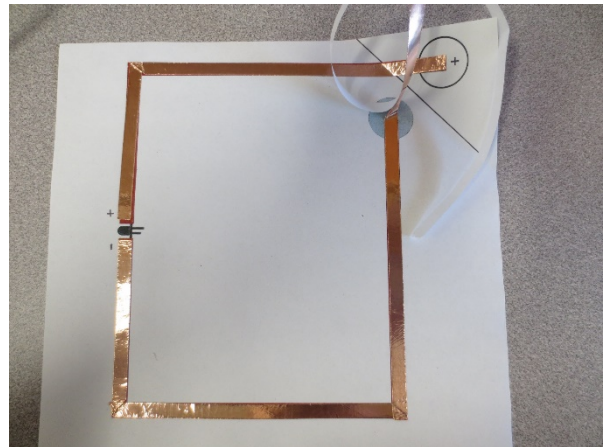




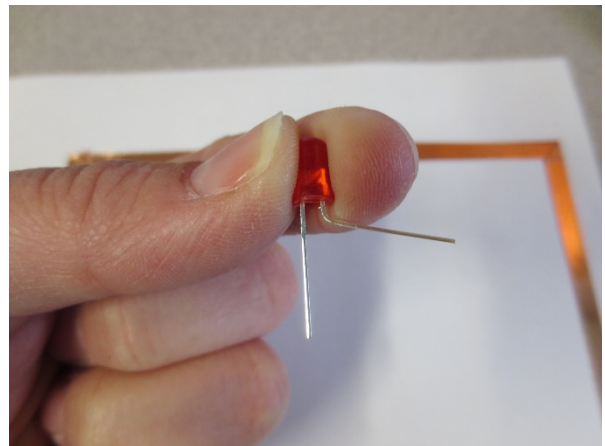
6. Repeat steps 3-5 beginning at the Negative side of the LED location. This side of the circuit has two corners that will need to be folded carefully into the 45° angle.



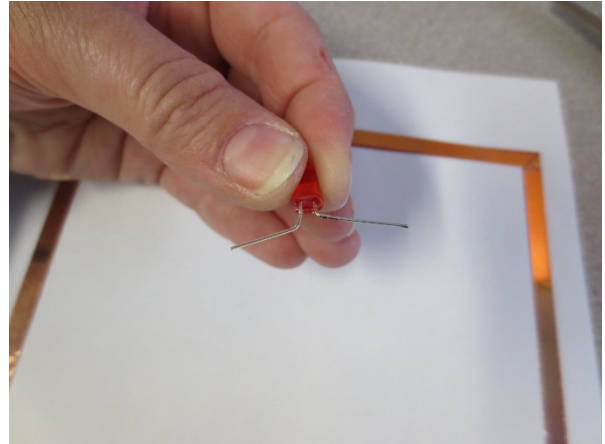
7. Continue to smooth the tape down as you get to the battery location, then cut or tear the conductive tape to complete the 2<sup>nd</sup> half of the circuit,



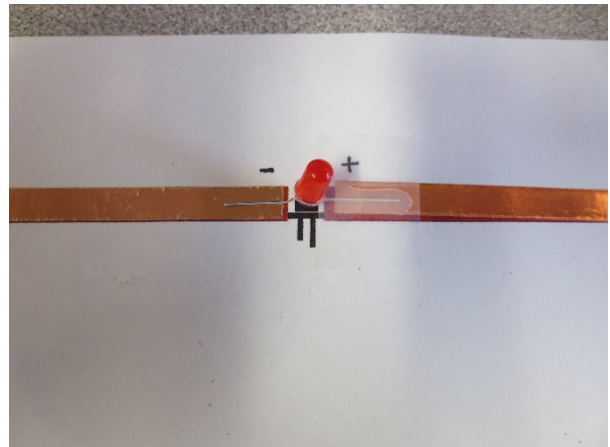
8. Select your LED and hold it by the light. Carefully bend the positive leg out to the side. Remember that the + leg is the longer of the two.



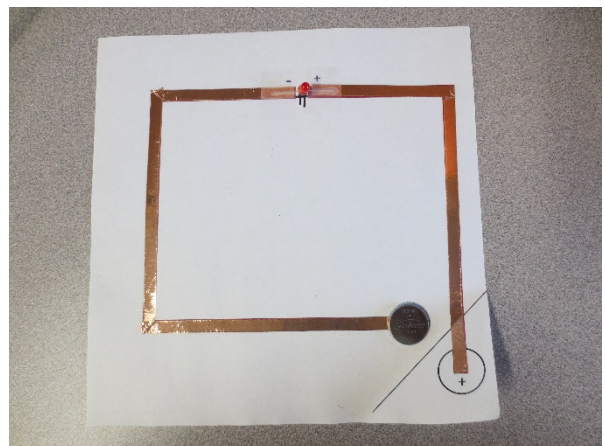
9. Carefully bend the negative leg of the LED, in the opposite direction.

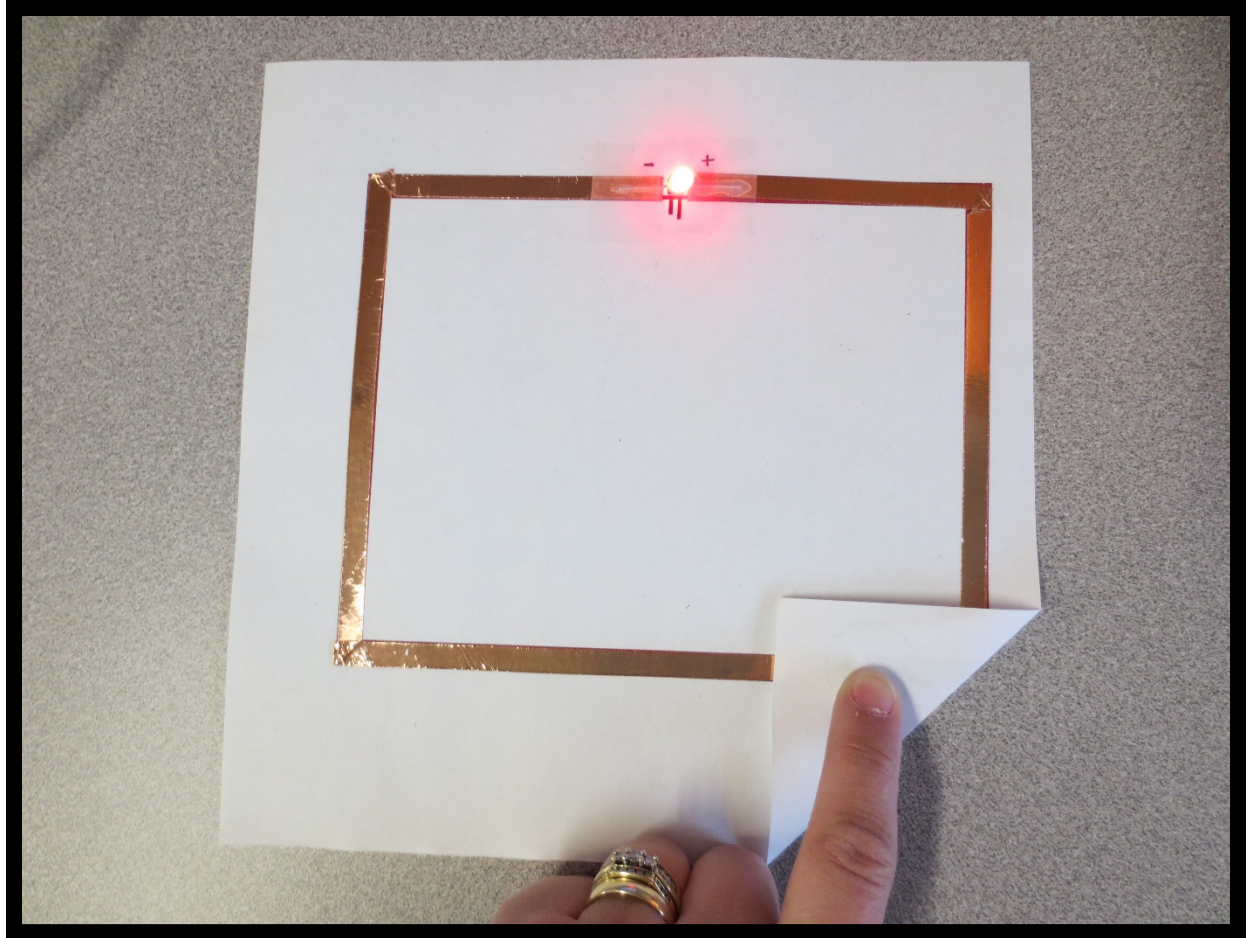


10. Place the LED onto the paper template as indicated and secure in place using scotch tape on either side.

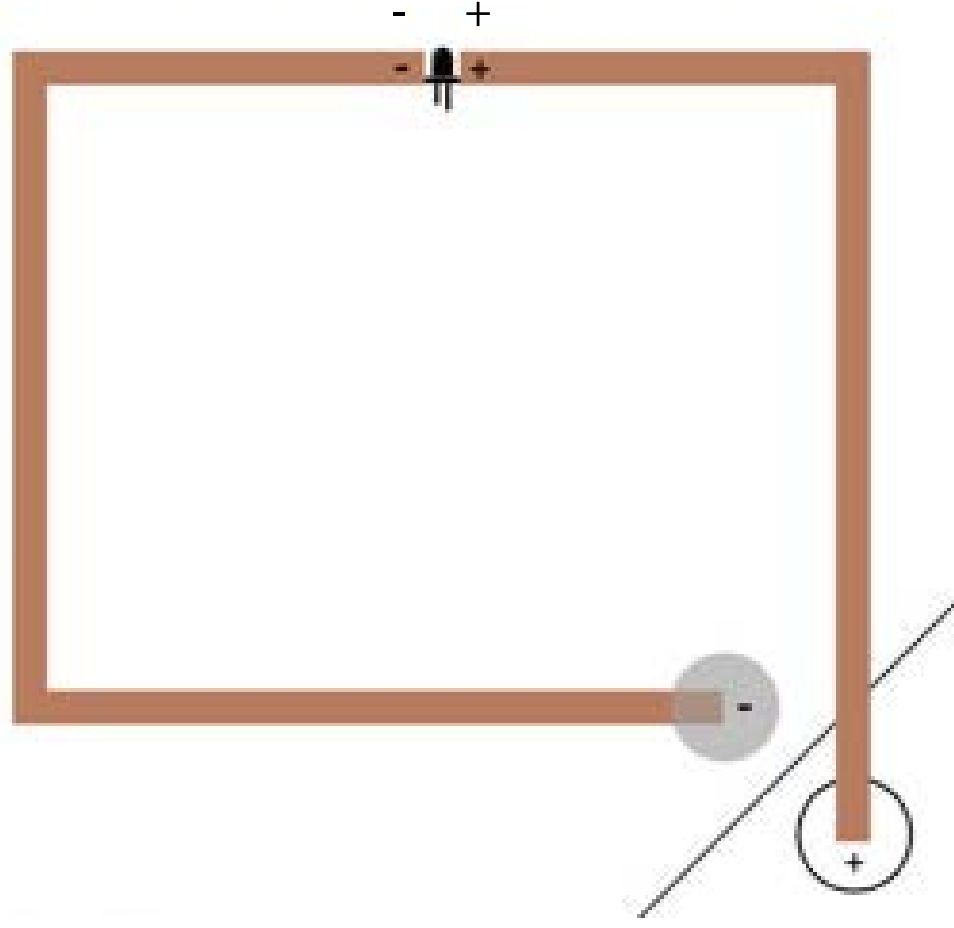


11. Place your battery on the Negative circle and fold over the corner with the Positive circle. This will light up your circuit. The paper fold becomes the switch that completes the circuit.





# paper Circuit Template



# paper Circuit Template

