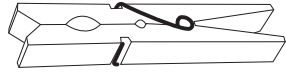


CLOTHESPIN PUPPET

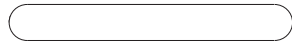
Georgia Tech
Digital World Image Group
An NSF AISL Funded Project

<http://dwig.lmc.gatech.edu/projects/prototypingpuppets/>

Materials & Tools:



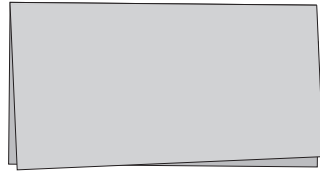
clothespin



popsicle stick



copper tape



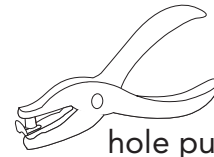
construction paper



LED



battery



hole puncher



scissors



glue

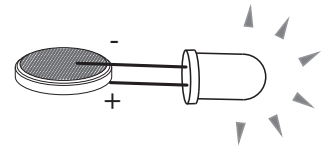
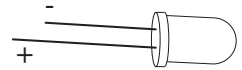
Hints:

LEDs only work in one direction. The longer end of the LED is positive (+) and the shorter end is negative (-).

On the battery, the flat side is positive, and the bumpy side is negative.

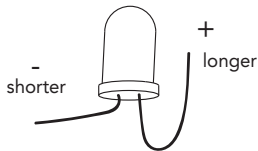
Before beginning, test your LED.

The 2 metal wires on the LED are called "leads".

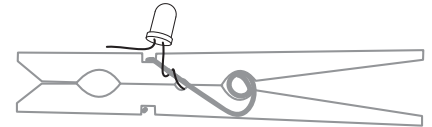
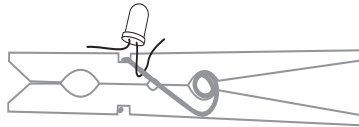


Instructions:

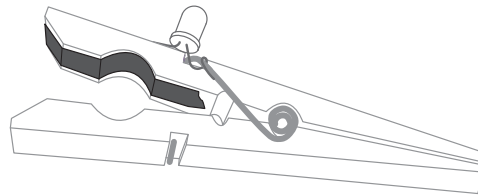
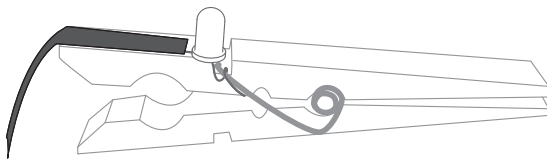
Step one: Bend the leads of your LED like so:



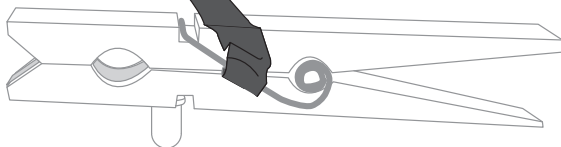
Step two: Hook the positive wire underneath the metal part of the clothespin. Make sure the clothespin is right side up, the way it is shown in the diagram. Bend the LED wire around the clothespin wire.



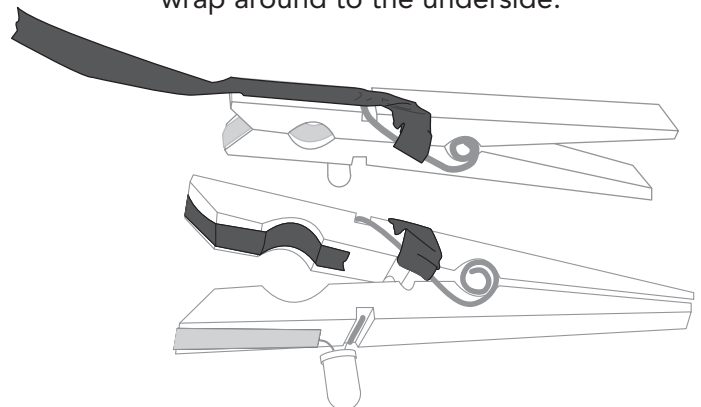
Step three: Put a piece of copper tape on top of the negative LED, taping it to the clothespin. Wrap the remaining tape on the underside of the clothespin.



Step four: Flip the clothespin to the other side, and wrap a piece of copper tape around the wire.



Step five: Fold the copper tape over the top part of the clothespin, then wrap around to the underside.

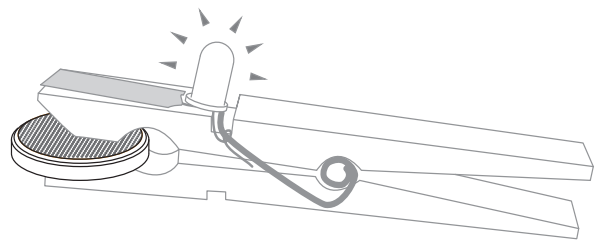


Step six: Test your LED again by clipping the clothespin on on the battery.

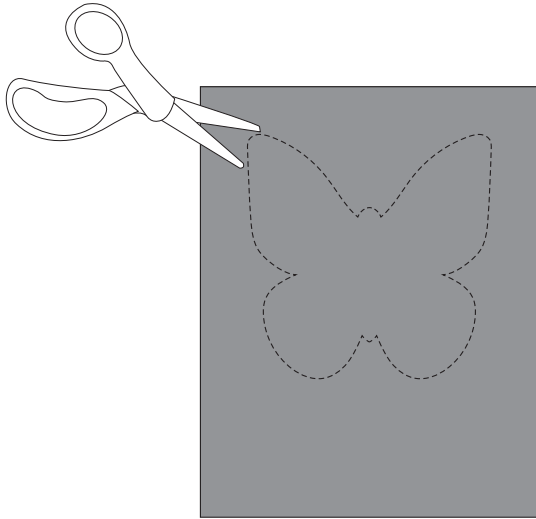
Hint: Is the leed secure around the clothespin wire?

Is the tape on top of the negative leed secure?

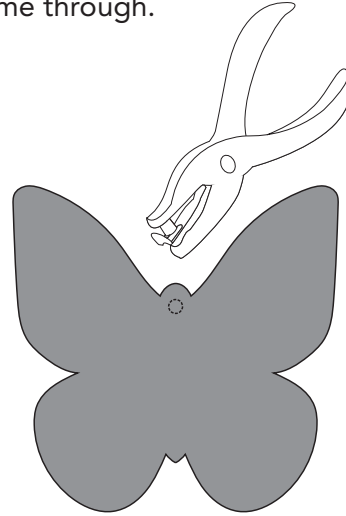
Does the battery need to be flipped?



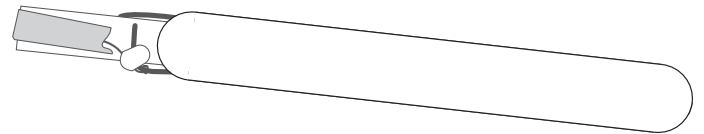
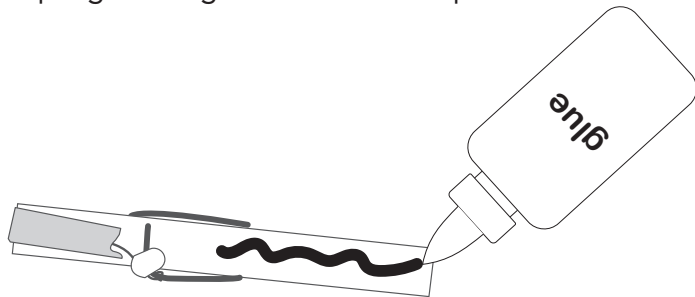
Step seven: Draw out your puppet design on construction paper. Cut out.



Step eight: Punch a hole in the location that you want the LED to come through.



Step eight: Put glue on the clothespin- the side with the LED on top. Attach popsicle stick to clothespin.



Step nine: Put glue on the construction paper, and attach popsicle stick, completing the puppet!

