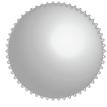


# Lightning Cloud Puppet

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

Georgia Tech  
Digital World Image Group  
An NSF AISL Funded Project

## Materials & Tools:



pom-pom



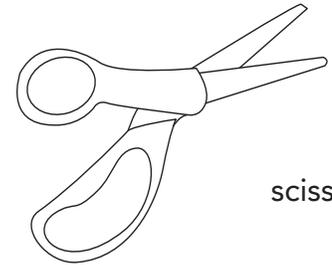
clear tape



construction  
paper



conductive  
thread

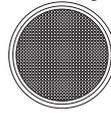


scissors

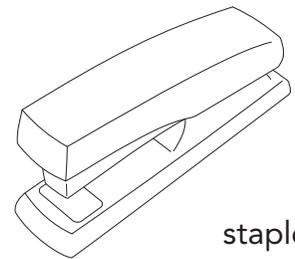


poly-fill batting

battery



glue



stapler

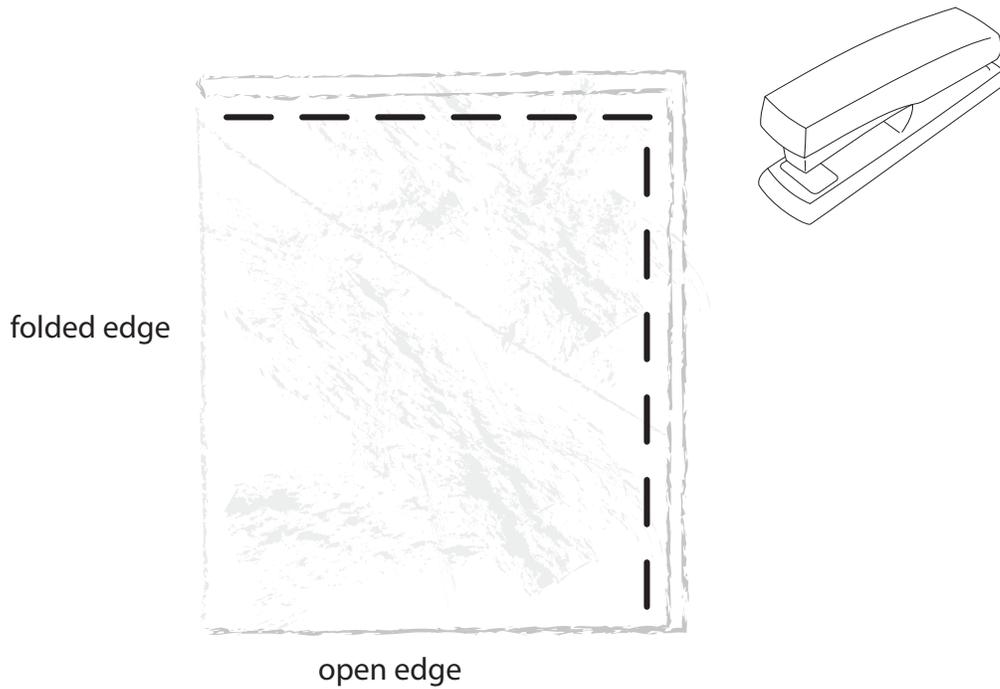
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## Instructions:

**Step 1:** Fold a piece of poly-fil batting in half and cut it out. Make sure it is bigger than your hand so that your hand can fit inside of it.

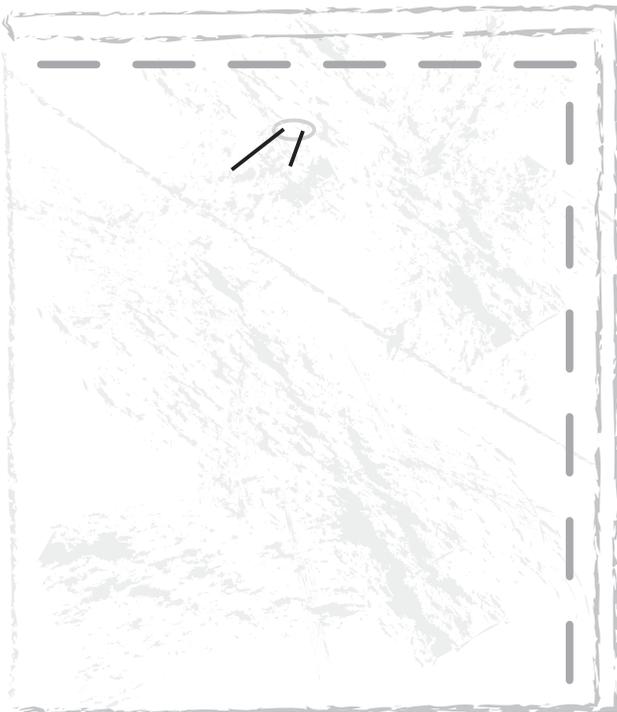


**Step 2:** Staple 2 of the loose edges together, using enough staples all around.  
Note: including the folded edge, there should be 3 closed edges, and one opening.



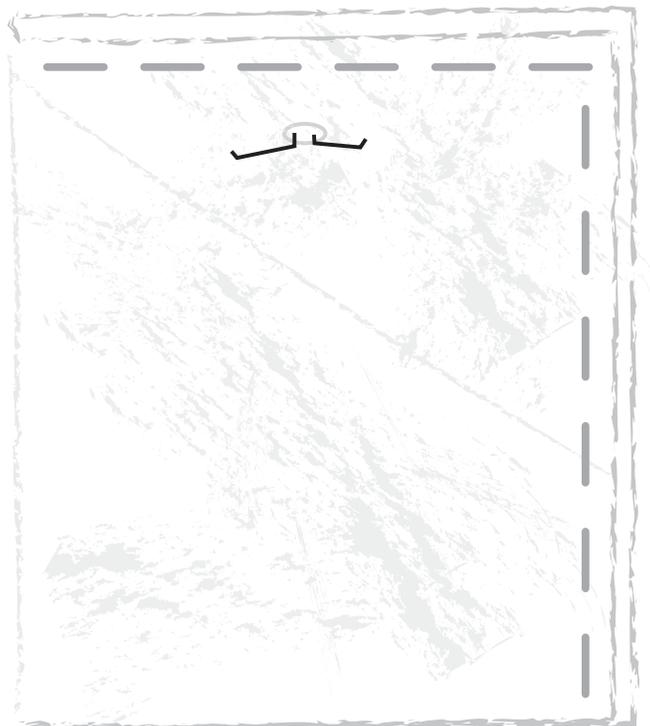
**Step 3:** Place LED in through open edge, pierce through top layer of poly-fil batting with both LED leads.

Note: the LED bulb should be between the two layers of poly-fil batting.



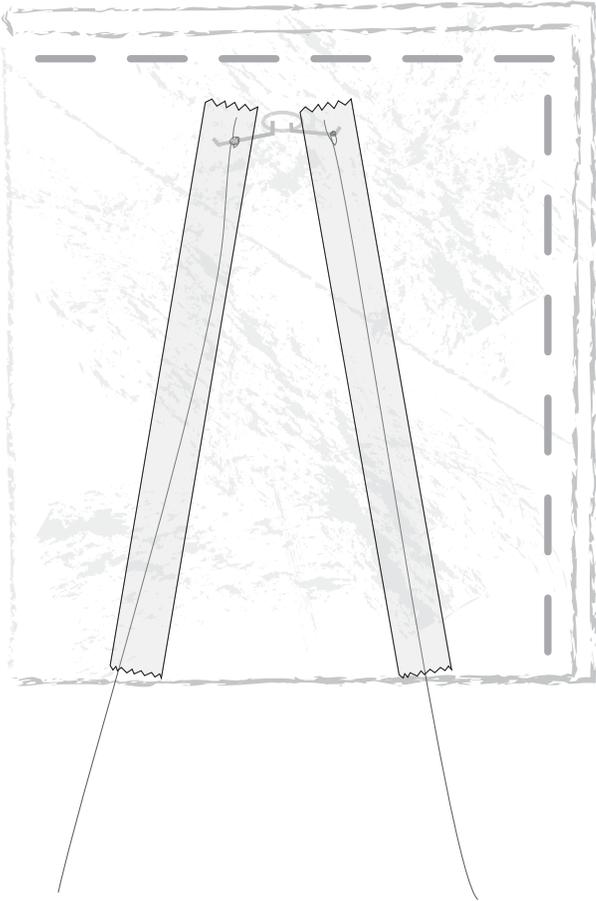
**Step 4:** Bend the LED leads away from each other.

Then bend the edge of each lead to make a small hook.

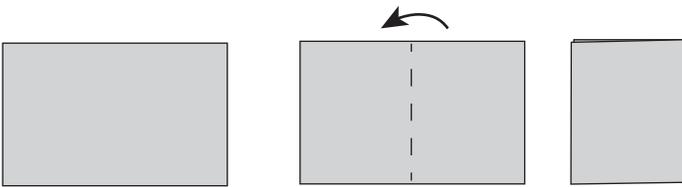


**Step 5:** Tie on a piece of conductive thread to each lead. Make sure the thread is long enough to extend past the open edge.

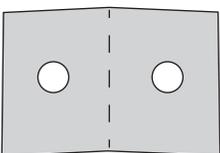
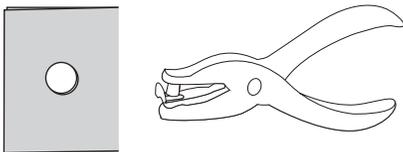
Tape conductive thread to batting.



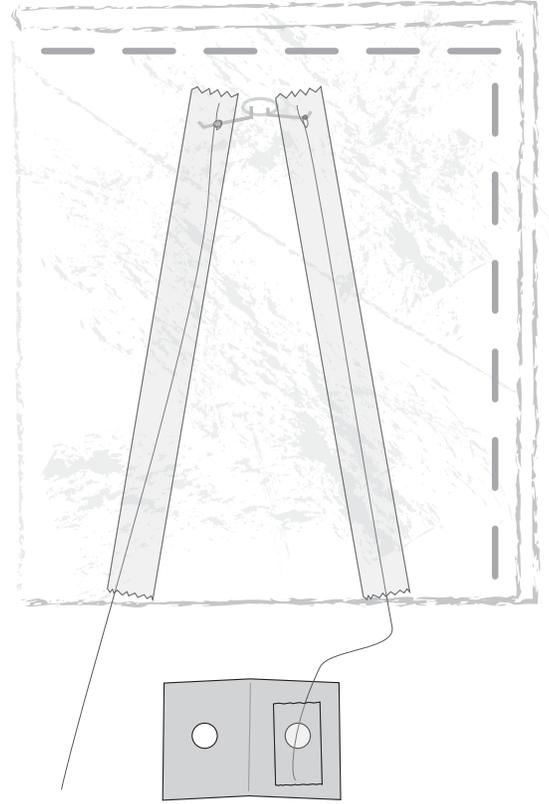
**Step 6 :** Cut out small piece of construction about thumb length. Fold in half.



**Step 7 :** Punch hole in construction paper, then unfold.



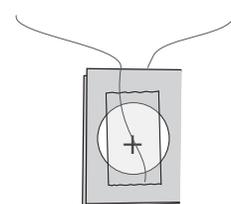
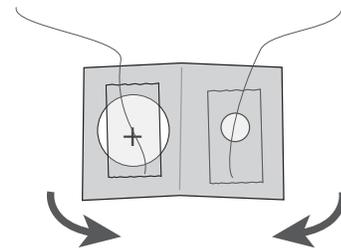
**Step 6:** Tape one strand of conductive thread over hole of one side of construction paper.



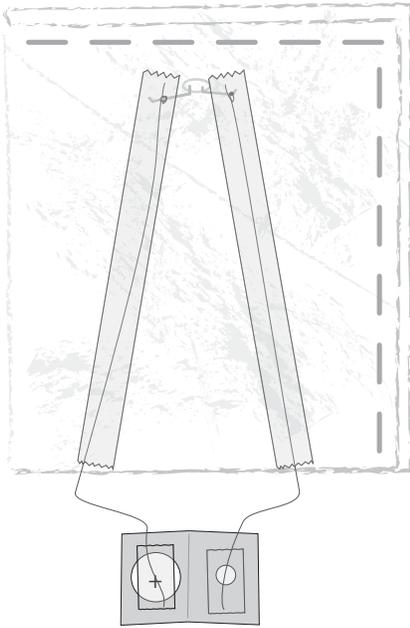
**Step 7:** Place battery over other hole. Place conductive thread over battery. Place tape over thread and battery, attaching it to the paper.

Note: when you fold this paper back in half with battery on outside, the light should turn on.

Make sure the separate strands of conductive thread are not touching.

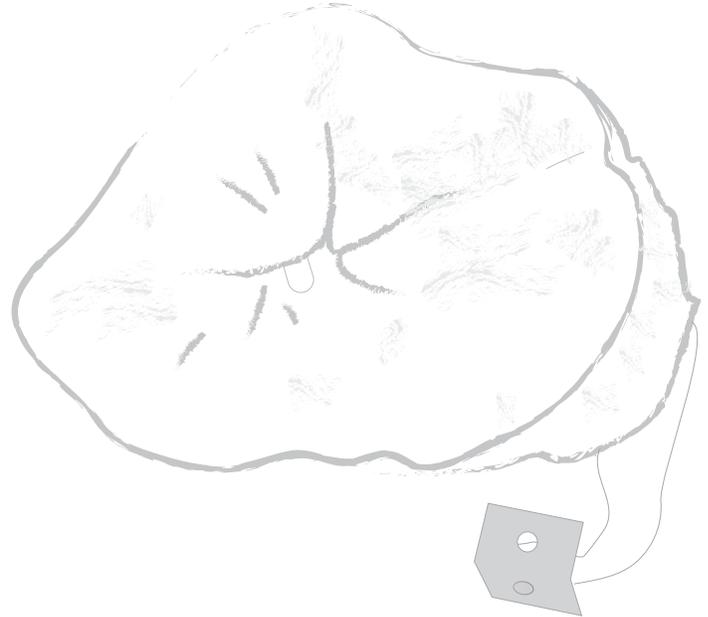


This is how your puppet should look:

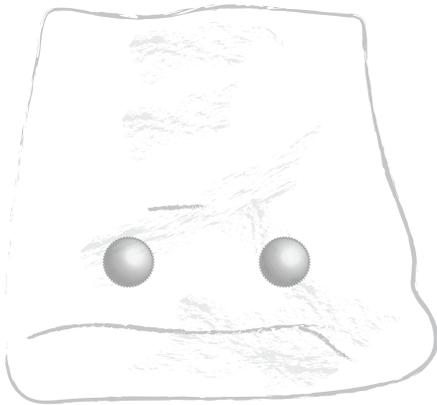


**Step 8:** Turn puppet inside out, being careful to keep conductive thread in place as you do.

Note: do not turn puppet completely inside out- leave room for the mouth.



**Step 9:** Glue pom poms on puppet as eyes.



**Congratulations! Your puppet is now complete.**

To use, put one hand inside puppet, and the other hand operates the on/off switch

