

# CINDER BLOOM

Light Diffuser - Des 360 -Pino Trogu  
Designed by Jiayi Jessica Xu



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# CONCEPT

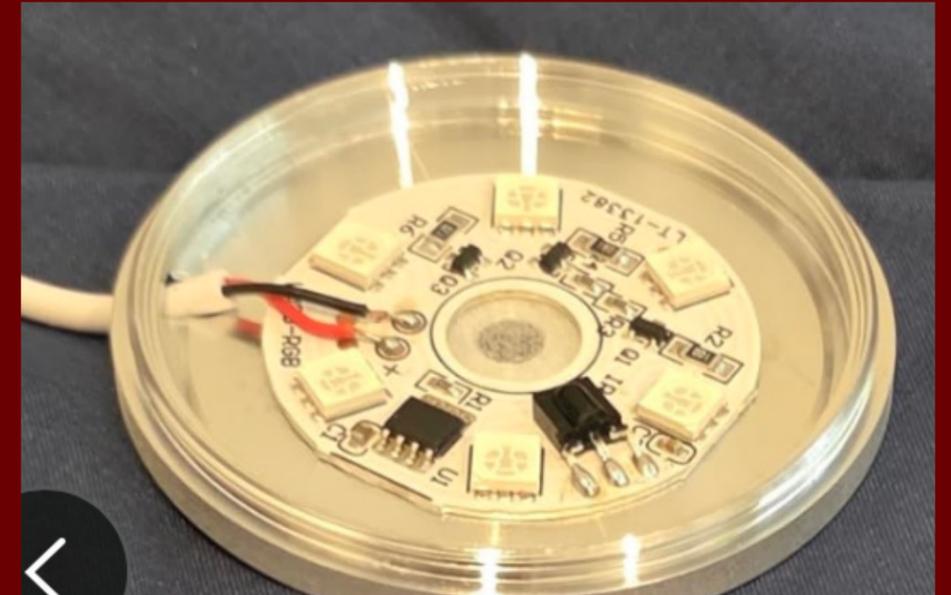
This light diffuser is inspired by the raw beauty and physics of a volcanic eruption—a moment where nature immense energy, a volcano releases intense light.



# MATERIAL

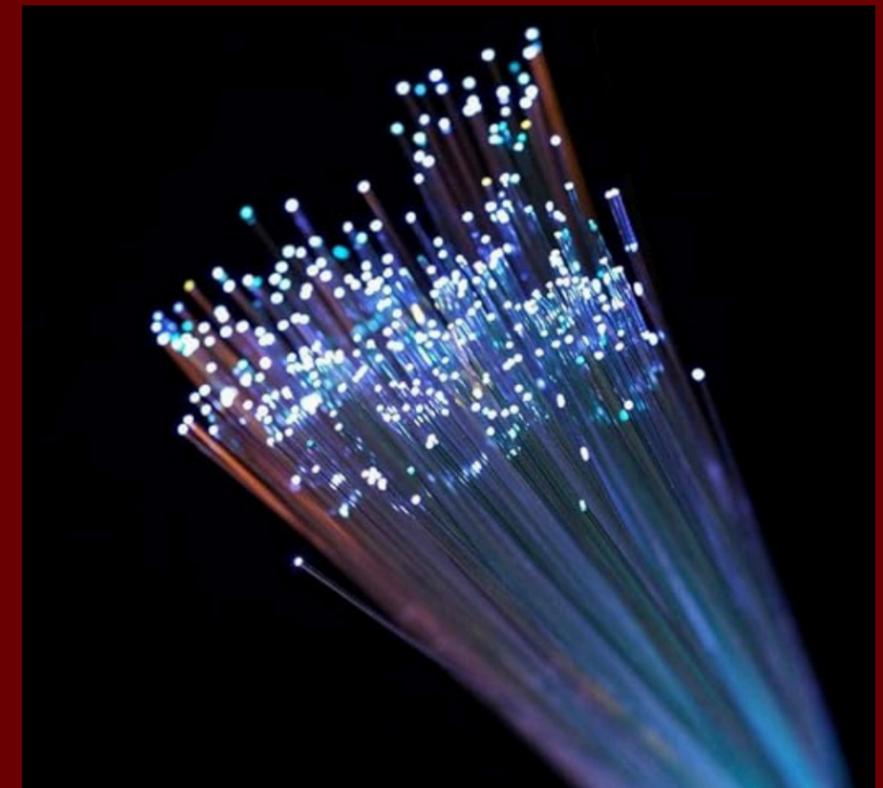
## Flat LED Light

-The flat lighting allows the light to shine from the bottom of the volcanic cave.

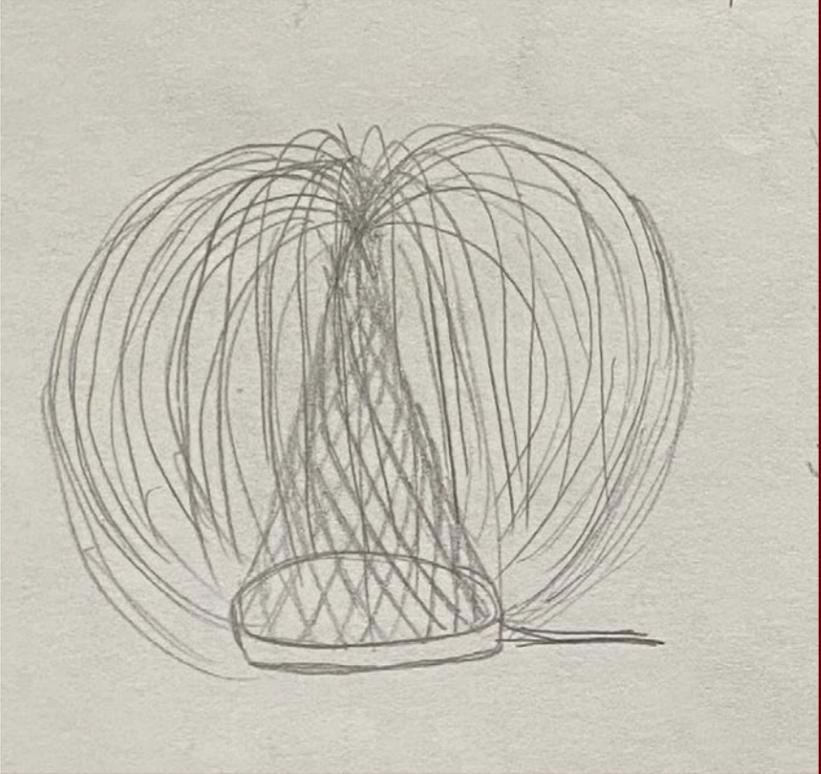
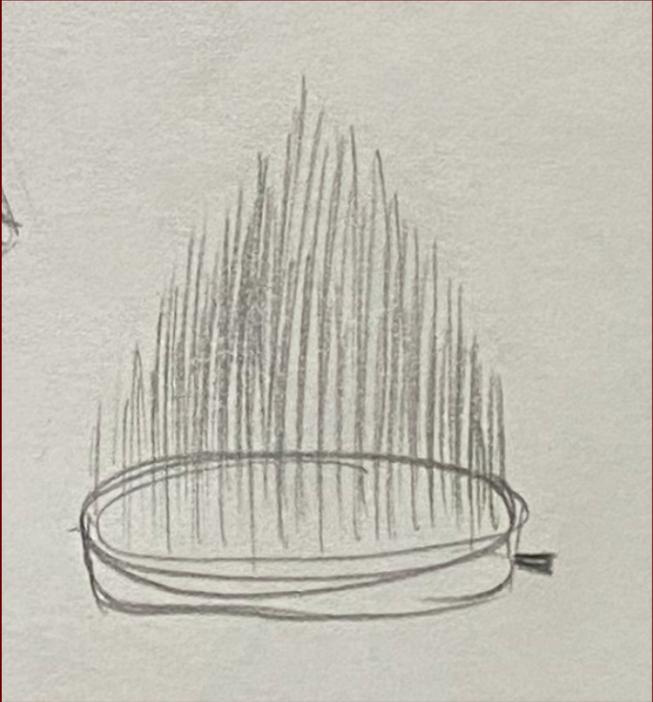


## Optical Fiber

-The fiber shines through the transmission of light on one side which can simulated lava mimics a volcanic eruption and its color matches that of the main volcano.



# SKETCH CONCEPT



# SKETCH (INSPIRATION)

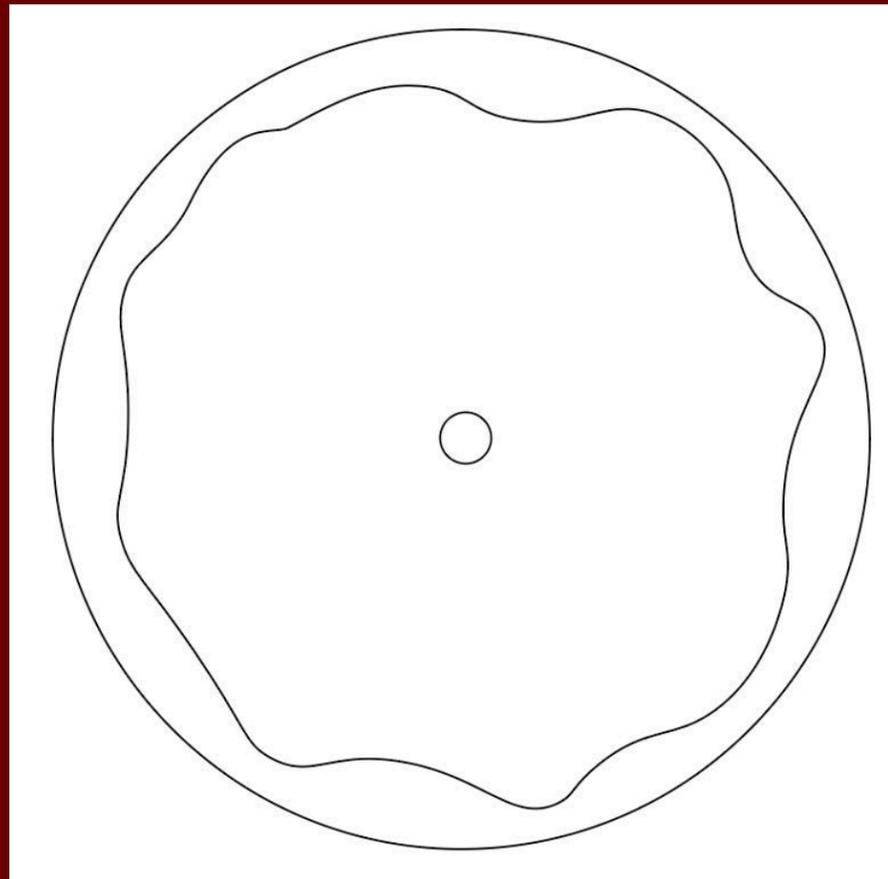


# LOW FIDELITY MODEL



# LASER PART

Volcano Base



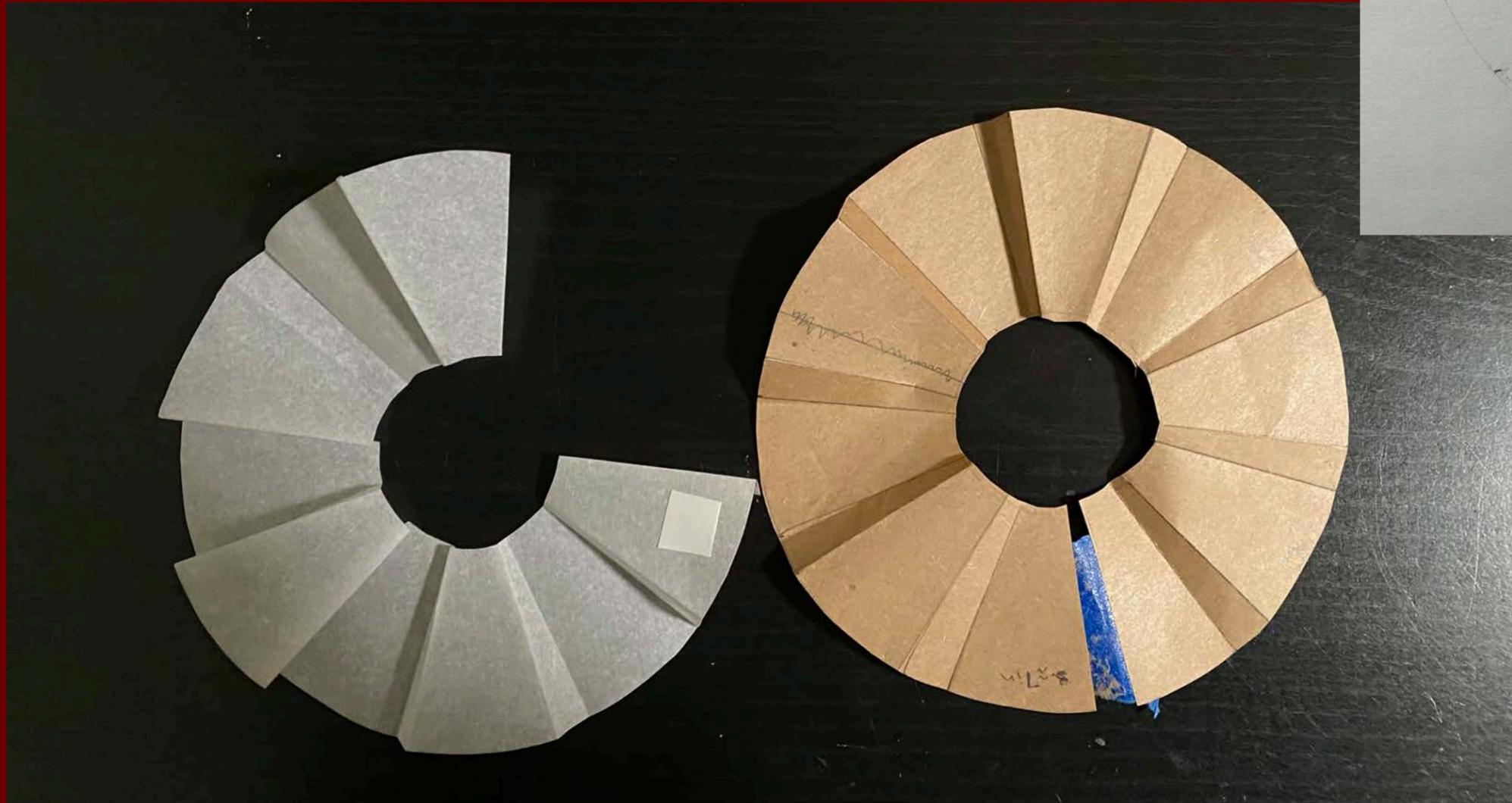
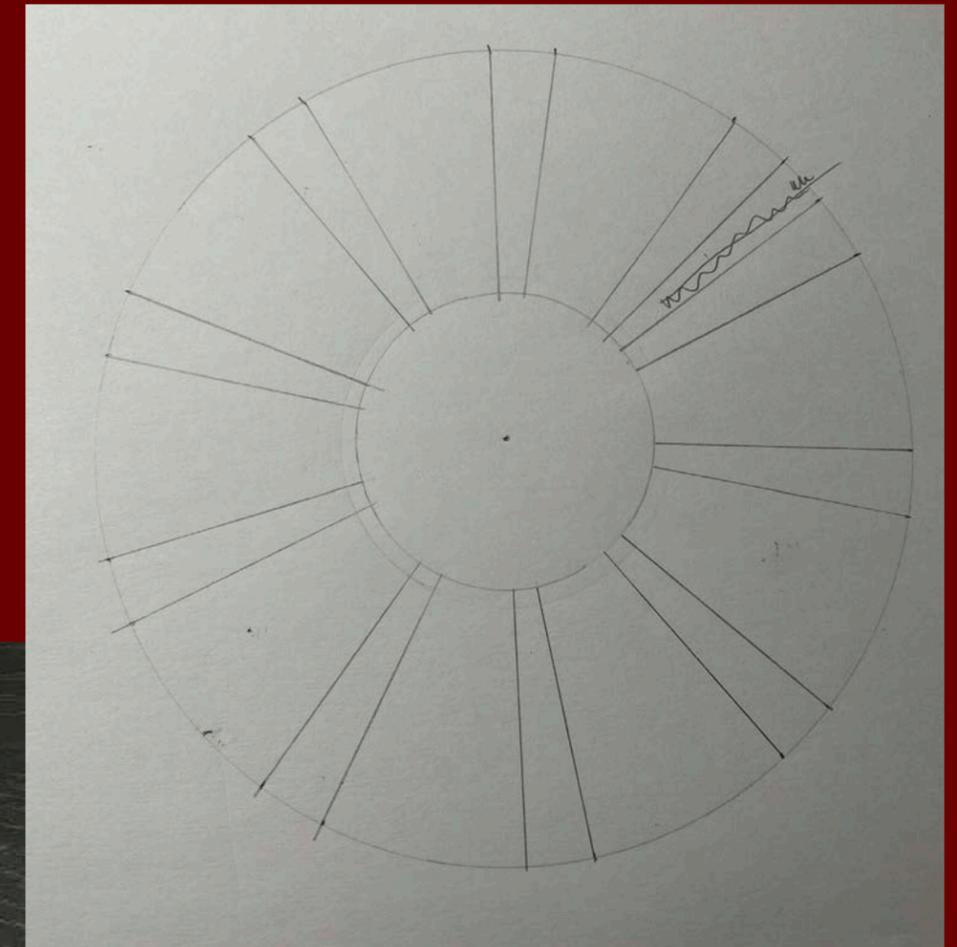
Shape control within the 7 in circle



# PROCESS

Layers of cone (volcano body)

- Draw two circle on the paper with the same center point.
- Mark guiding lines of folding.
- Cut out circle shape.
- Determine concave and convex side when folding the paper.



- Circle diameter : 6 in
- Inner circle : 2,1/2 in
- Bulge gap : 1.5 in
- Folding gap : 1/2 in

# PROCESS

Once the folding is done, the ending edge can be gule to form a cone.

Start with bottom base layer of 6 convex side, continue to stack on and the cone gets smaller. The number of concave and convex will also reduce.

The final ideal model summarized into seven layers height.

Concave and convex can be taped for stable.



# PROCESS

Tie a small bundle of optical fiber together.



While the fiber only curve in one direction. Tape four of them in different direction for blooming effect.



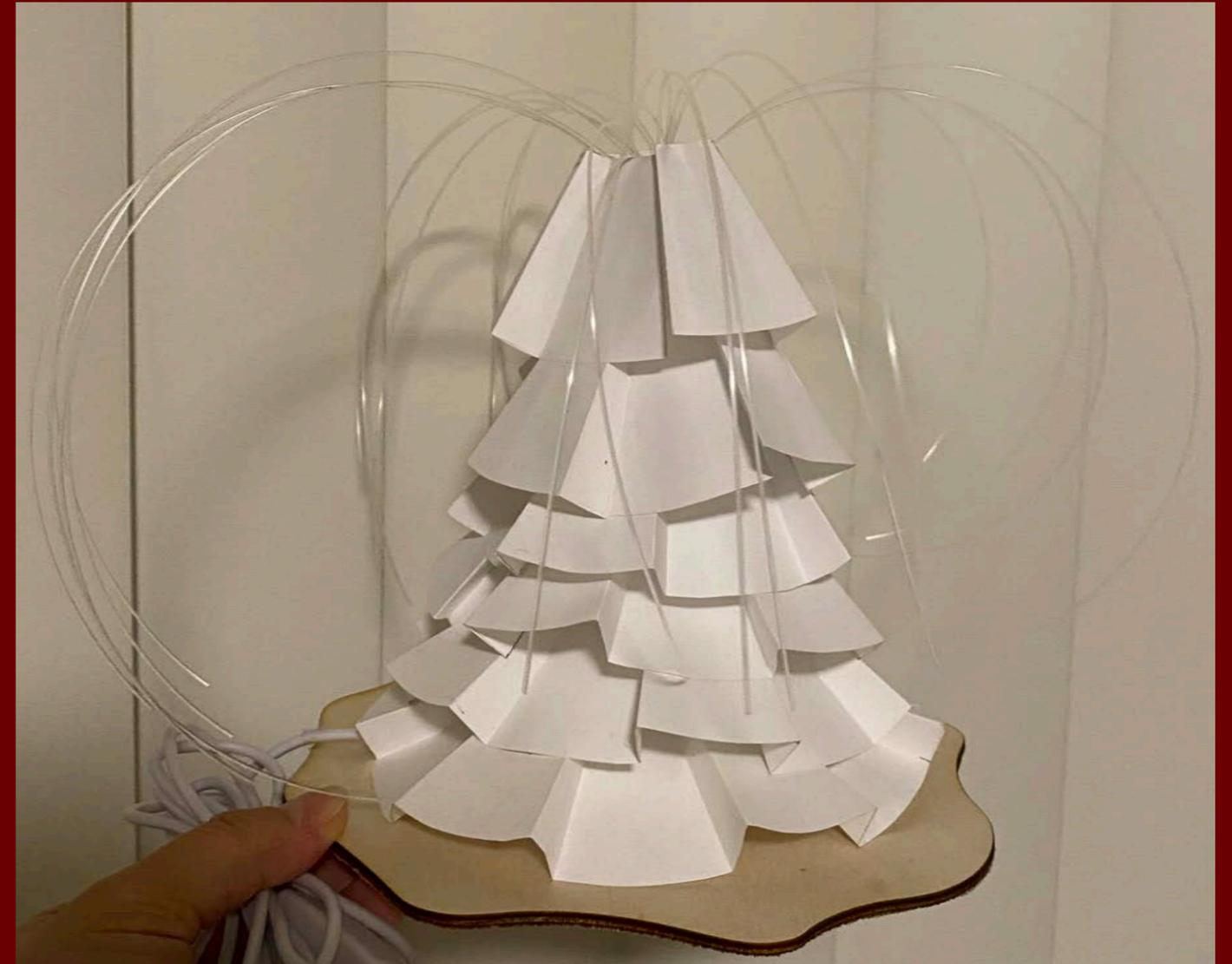
Tape the fiber direct on top of the LED light.



# PROCESS



The two holes can be aligned for the center, then secured the bottom wood base and the light with double-sided tape.



Pass the fiber from the volcano base through the top.

# COLOR POSSIBILITY



# CINDER BLOOM



Volcanic eruptions are among the most dramatic natural events on Earth: fire, glowing lava, towering ash plumes, and powerful explosions. For many, seeing something so powerful and raw evokes a sense of awe that's hard to get from everyday life. Even though volcanoes are dangerous, many people drawn to things that are both dangerous and beautiful find the visuals striking. "Cinder Bloom" creates a dynamic, cinematic glow that suggests heat, motion, and transformation, making it ideal for people to keep the explosion moment in sight.

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