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<u>Overview</u>

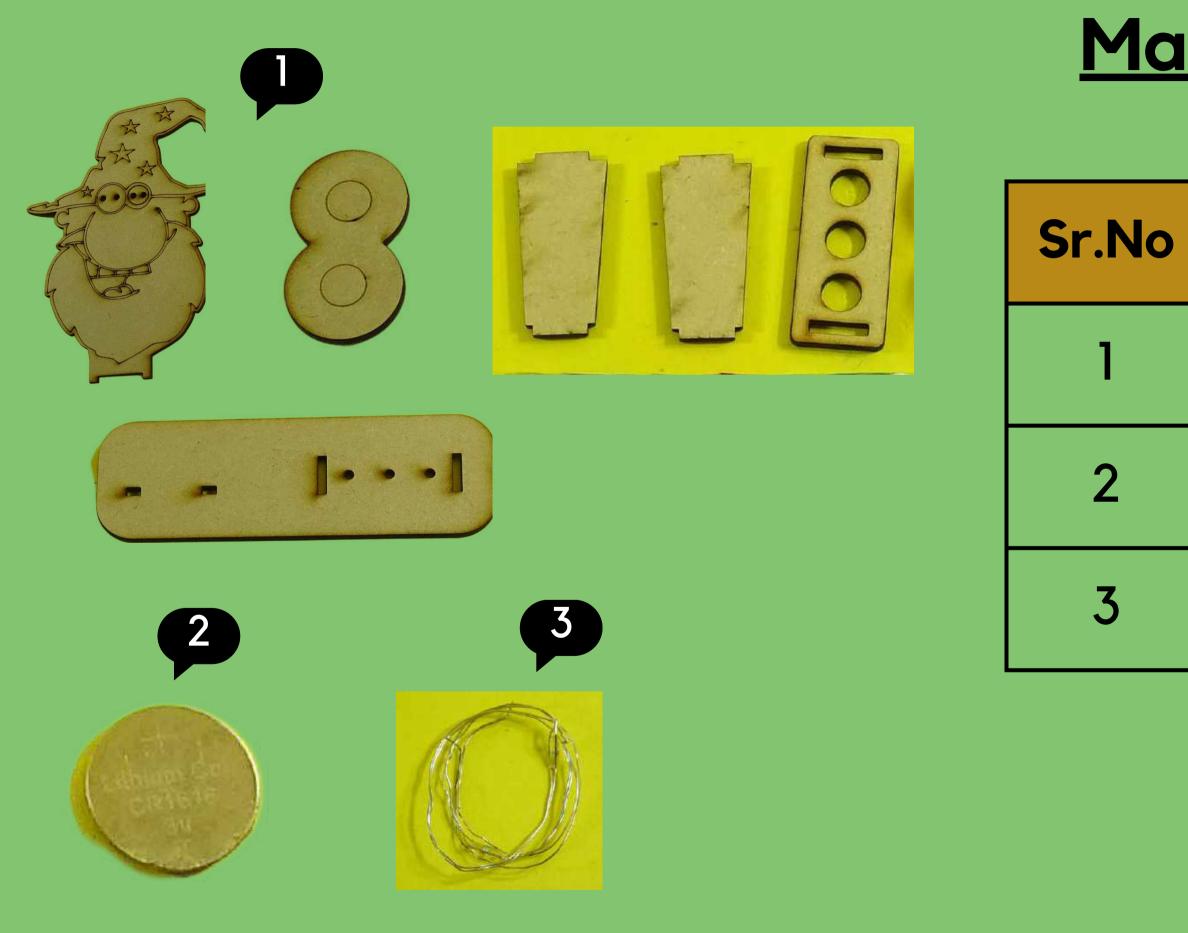
Step into the world of LEDs with the LED Wizard Experiment! Learn how to light up LEDs using simple circuits. Explore colors and patterns in this hands-on adventure. Discover the magic of electronics!"



Engineering challenge

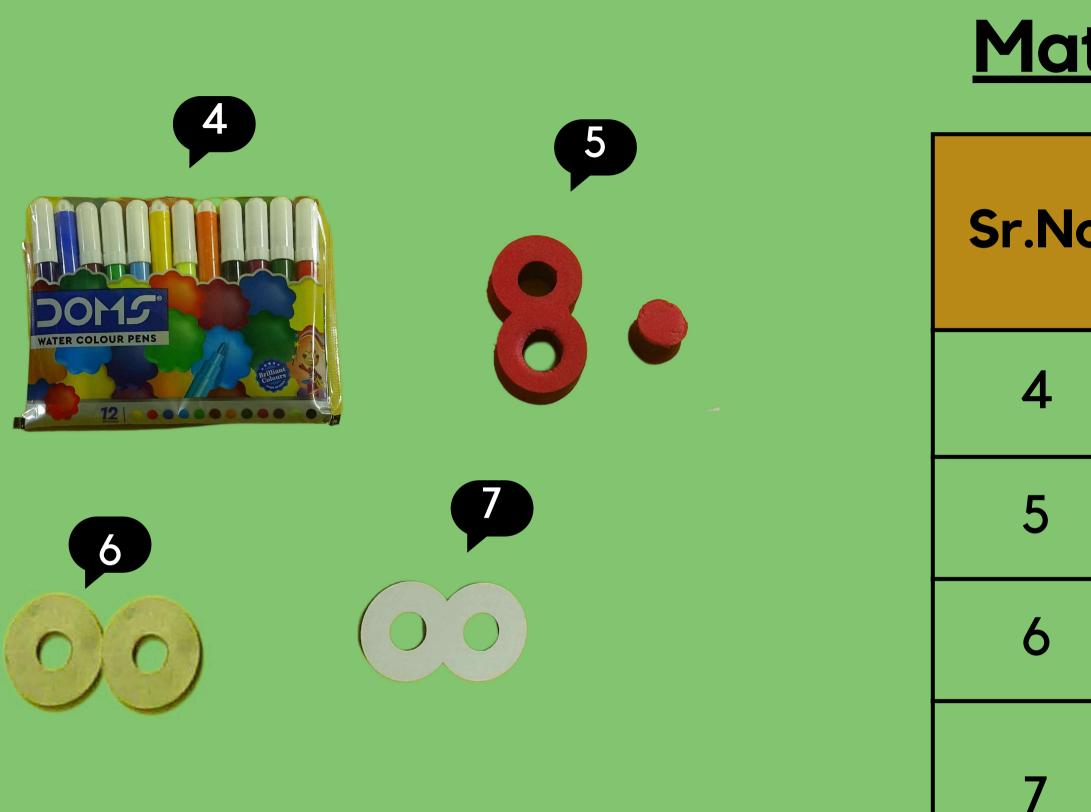
Design a Dazzling LED Display! Use circuits to create patterns and colors with LEDs. Experiment with connections to craft your unique light show. Unleash your creativity in this illuminating engineering adventure!





<u>Materials Required</u>

Name	Qty
MDF Parts	1
Cell	1
LED	1

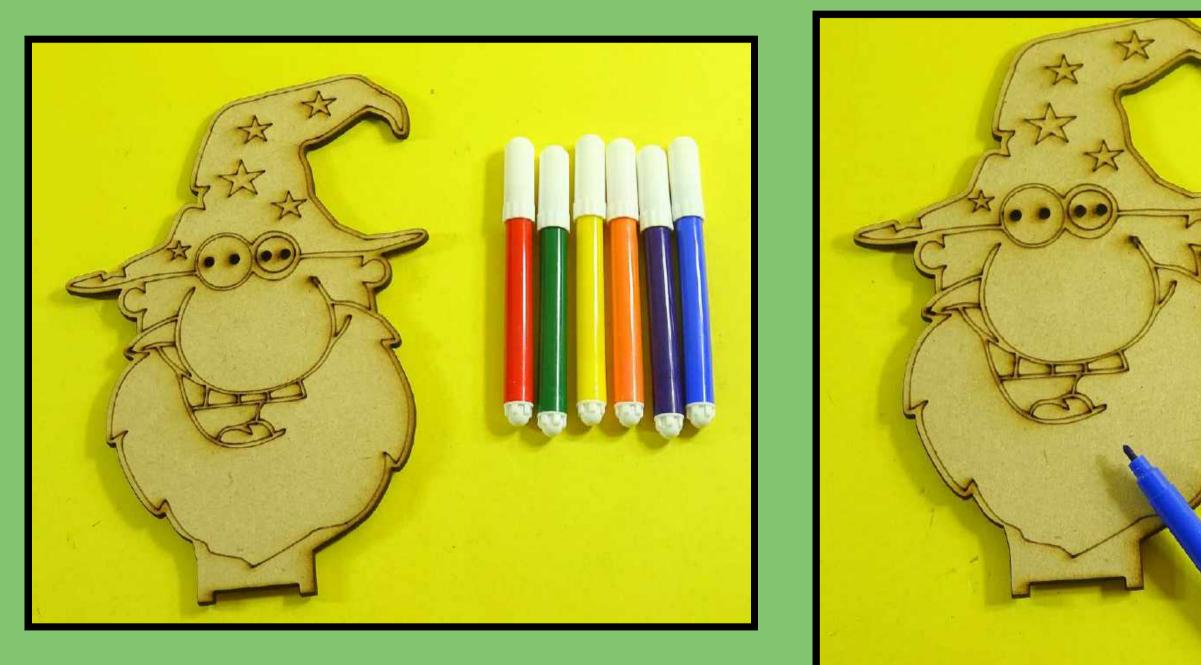


<u>Materials Required</u>

0	Name	Qty
	Color Pens	1
	Cell Holder Foam	1
	Washer	1
	Double side sticker	1

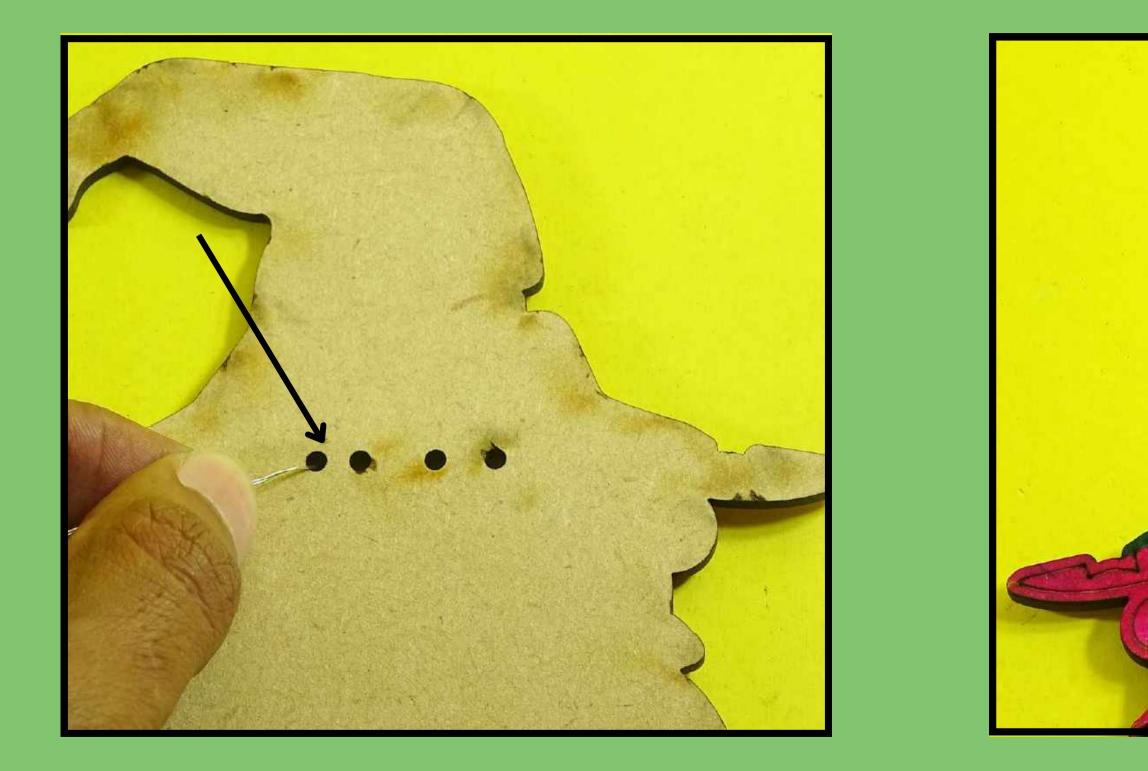


Color the face-shaped MDF using the sketch pens of your choice





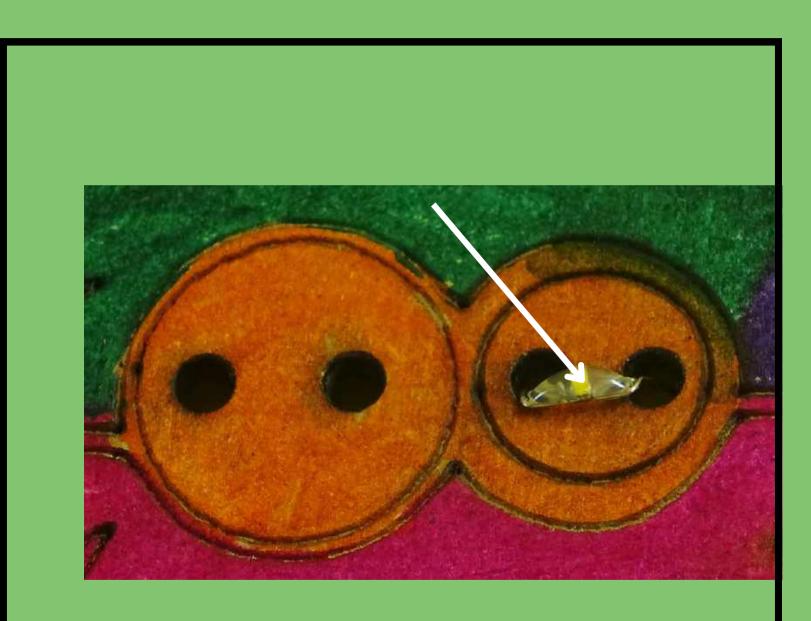
carefully put the LED wire through the hole as demonstrated.





Place the LED wire into the nearby hole marked by an arrow, then gently pull extra wire through and secure the one LED to the front face of the **MDF** as demonstrated



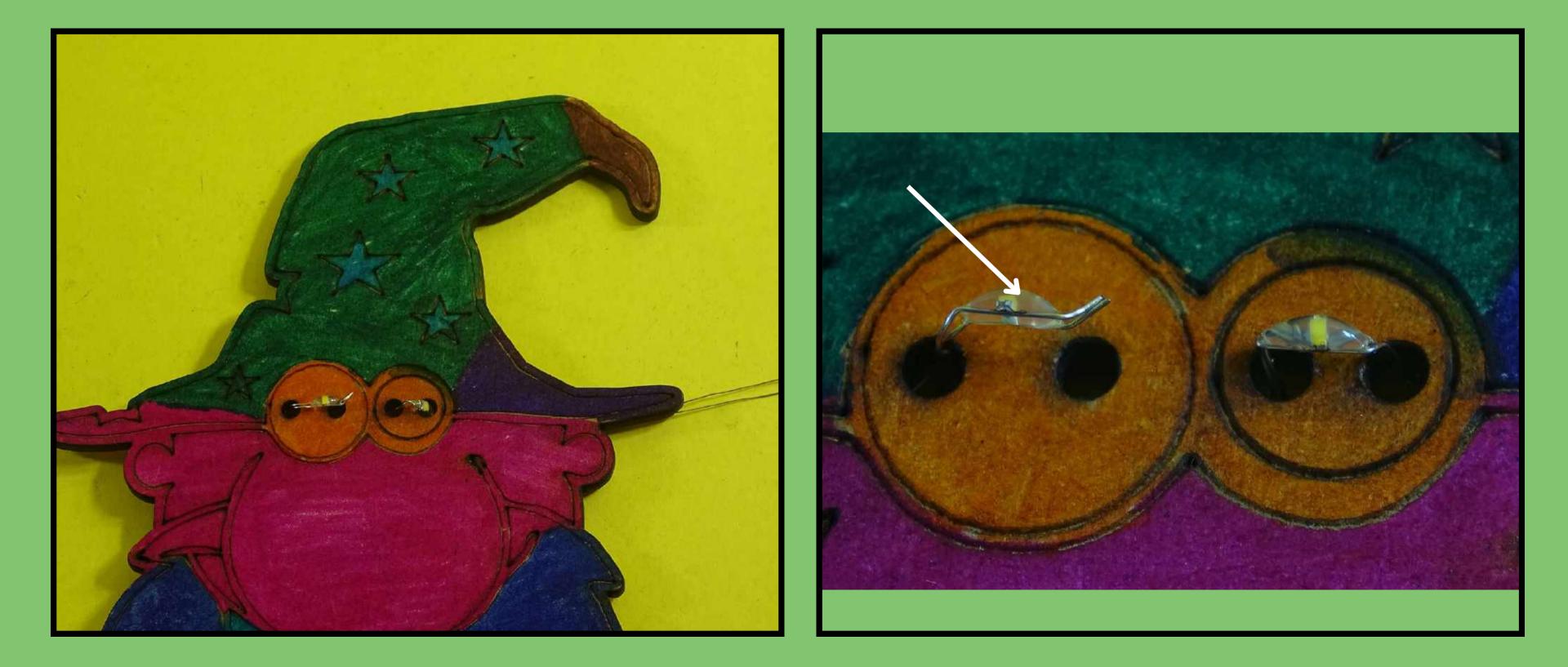


Put the LED wire into the hole in the MDF pointed out by the arrow, just like it's shown





Fasten the second LED onto the front face of the MDF as demonstrated



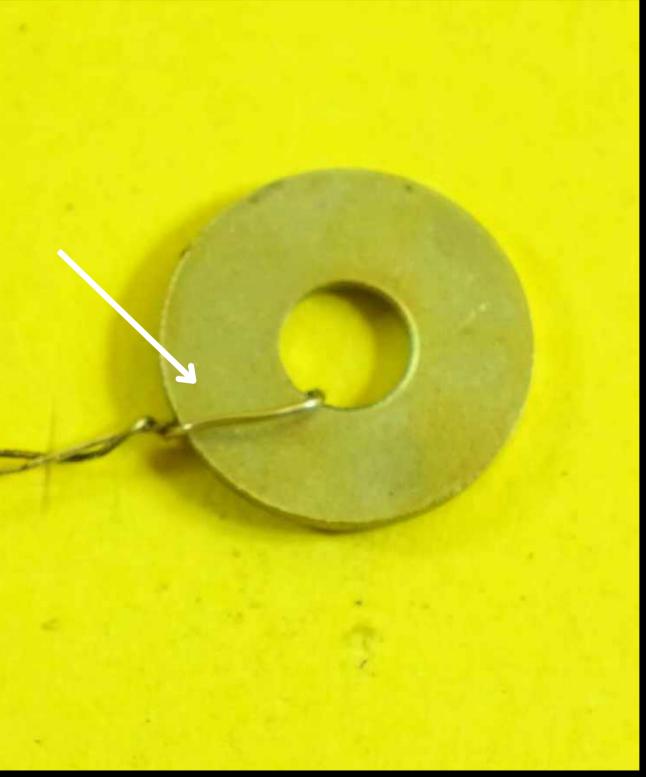
This is how your MDF looks from the front and rear views after connecting the LED to it



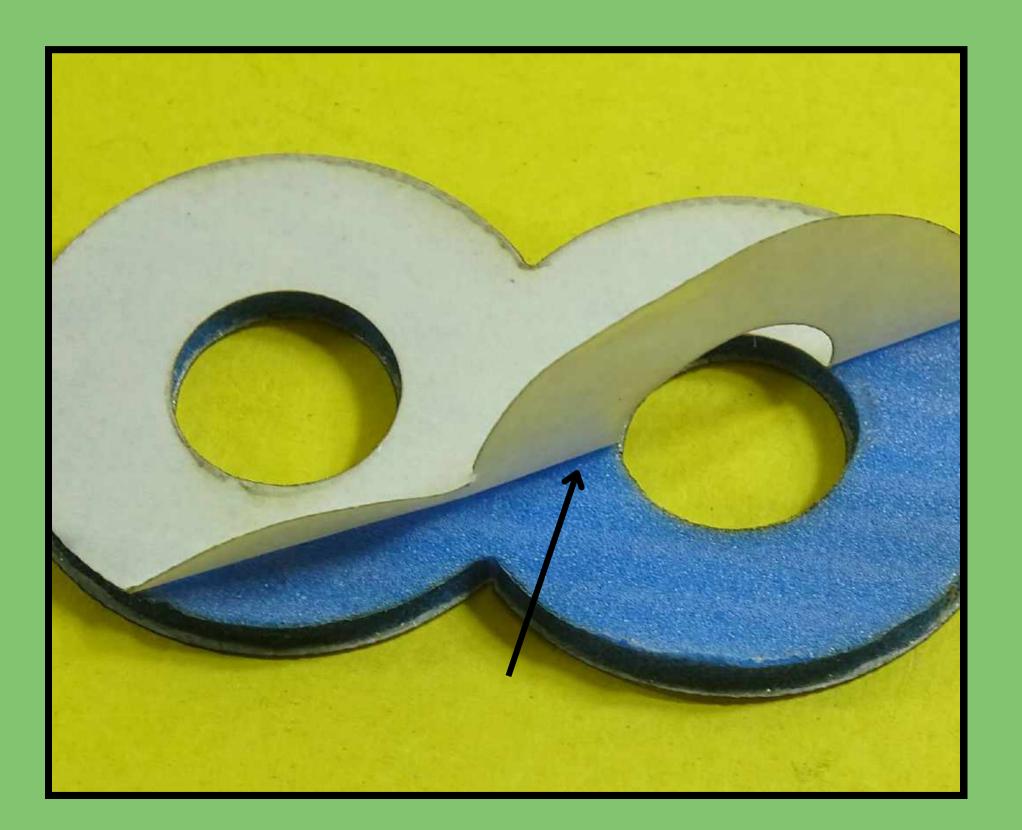


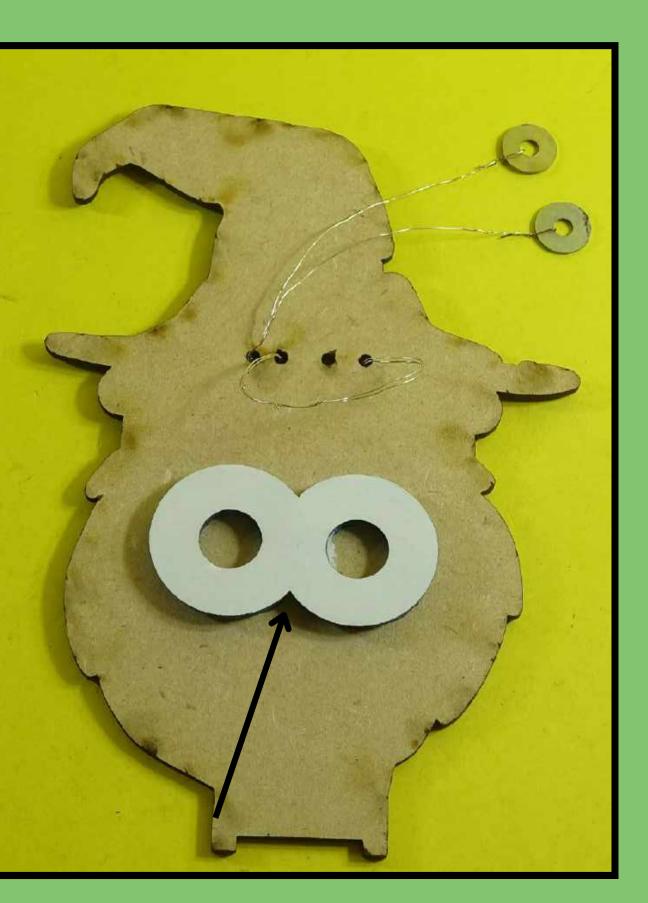
Attach the washer to the LED wires just like as shown.



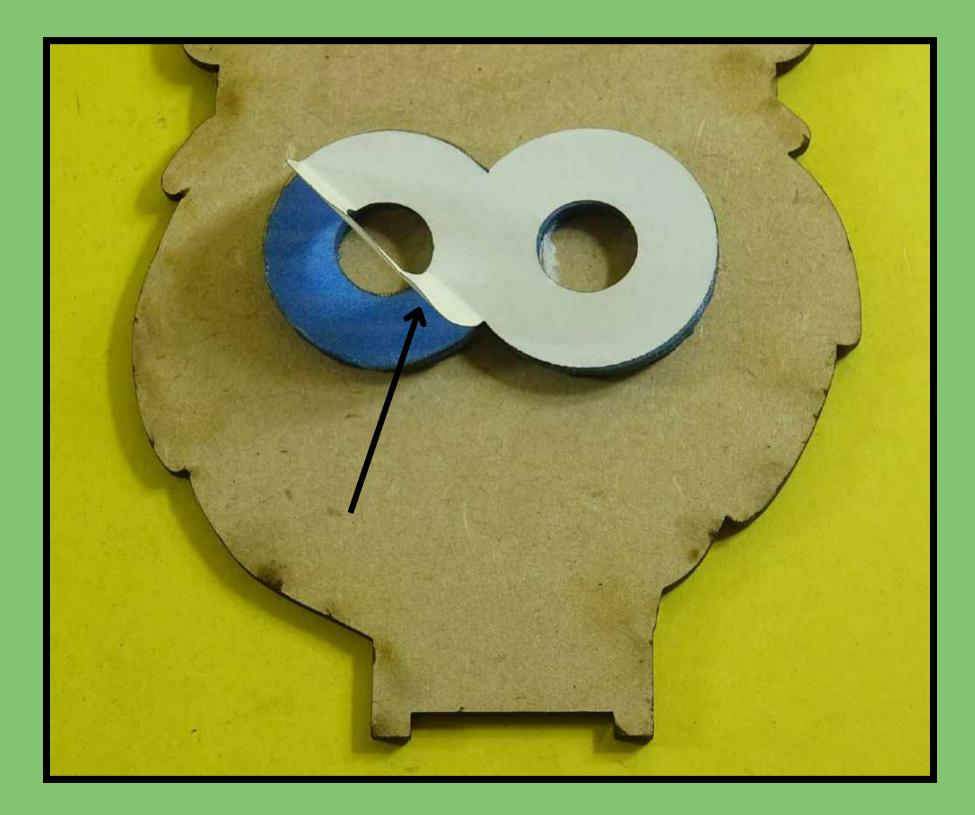


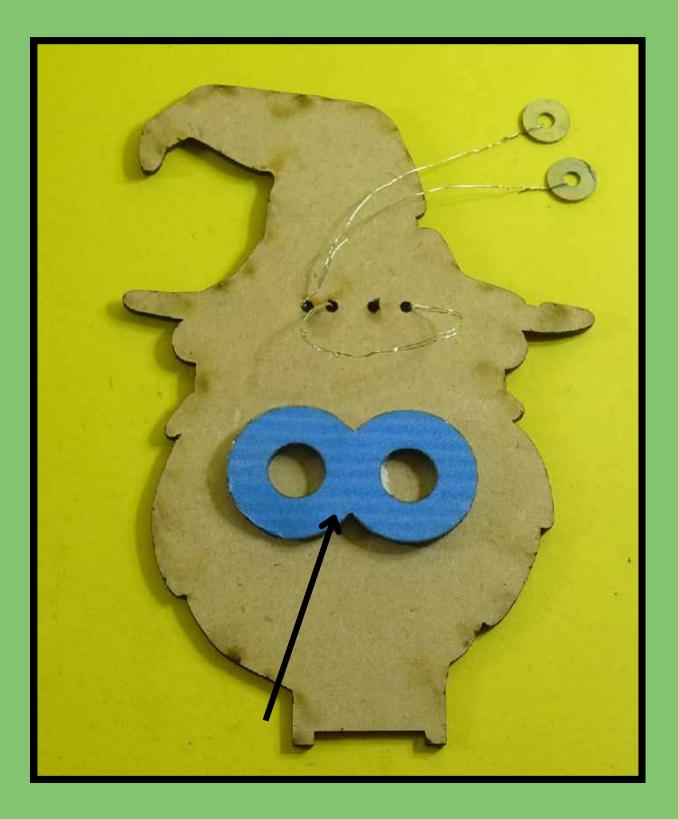
Remove the double-sided sticker as demonstrated and stick it to the backside of the MDF, as shown



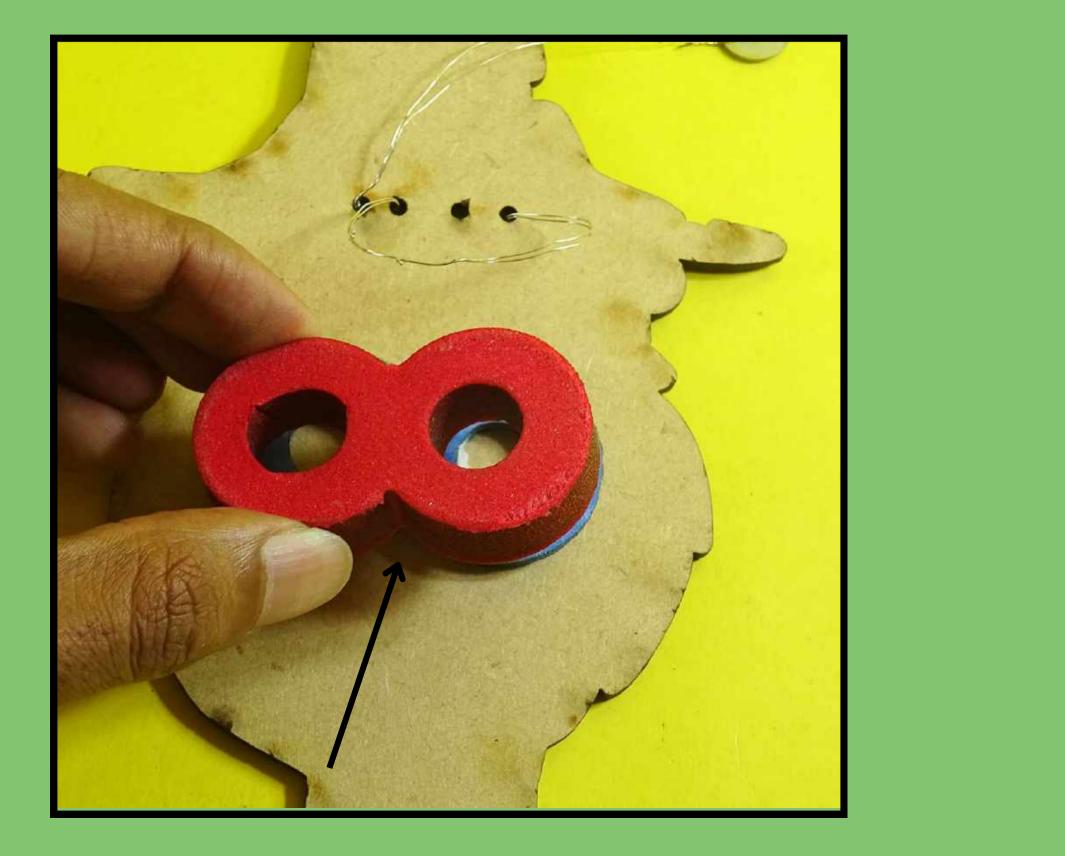


Remove the double-sided sticker other side also as demonstrated





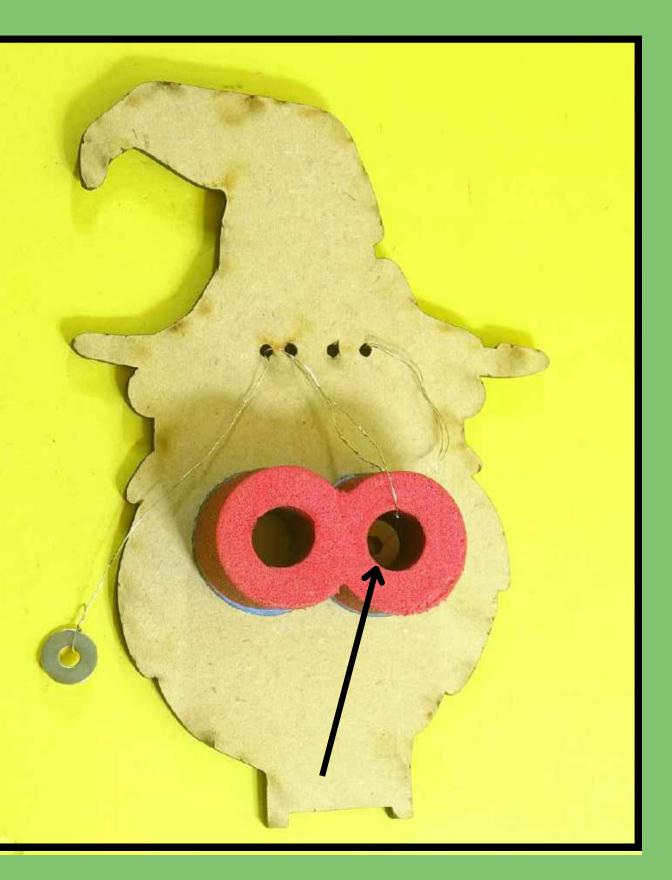
Stick the foam cell holder onto the double-sided sticker as shown



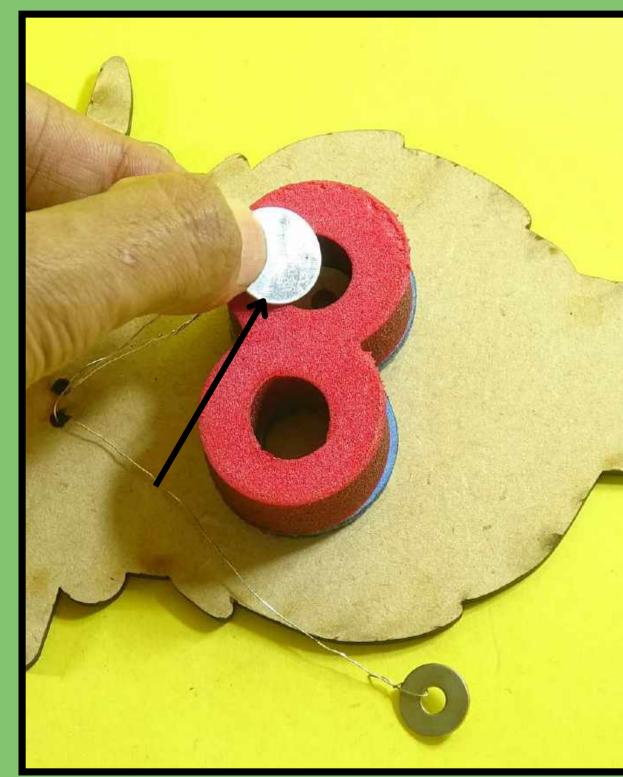


Put one washer inside the foam, just like it's shown



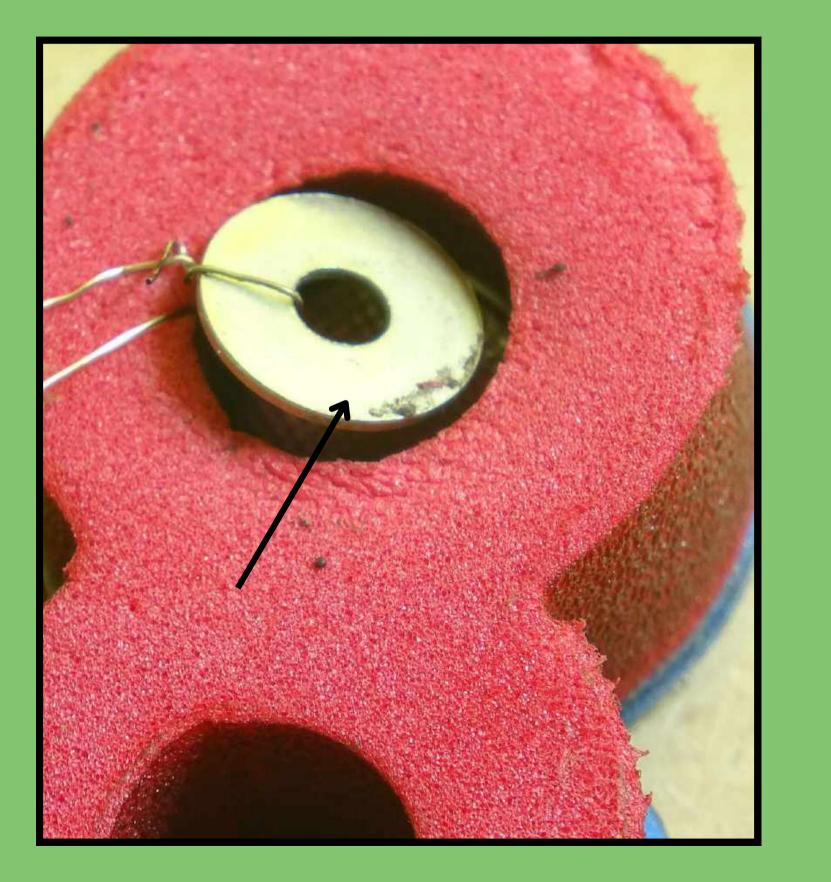


Add cell to foam cell holder just like it's shown

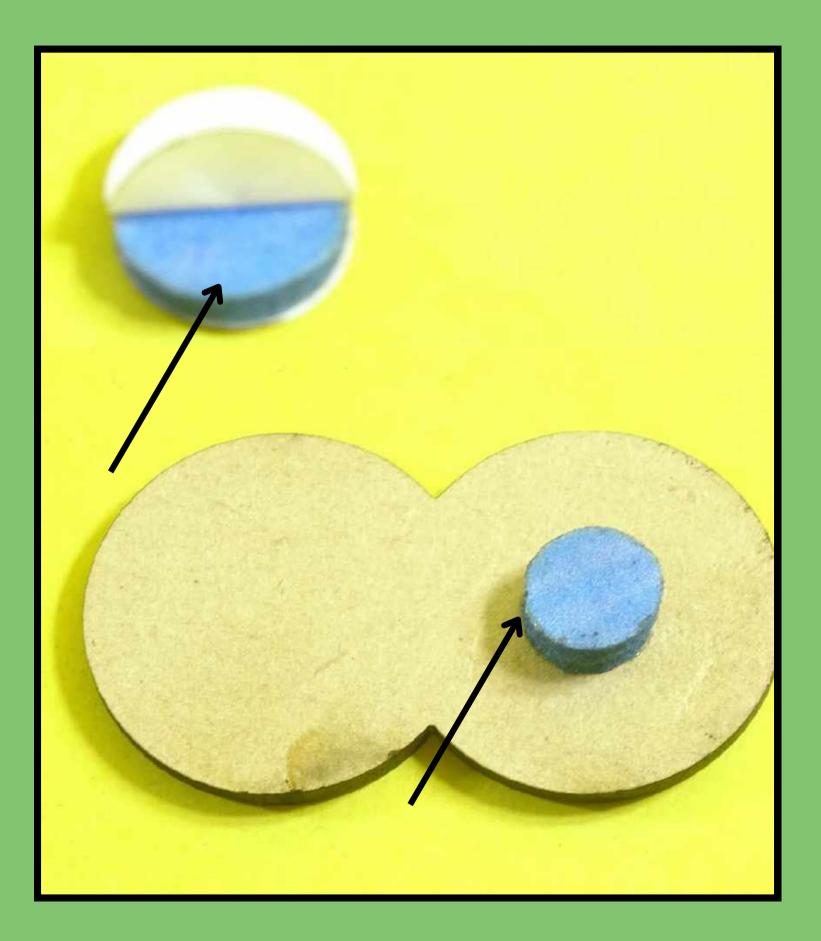




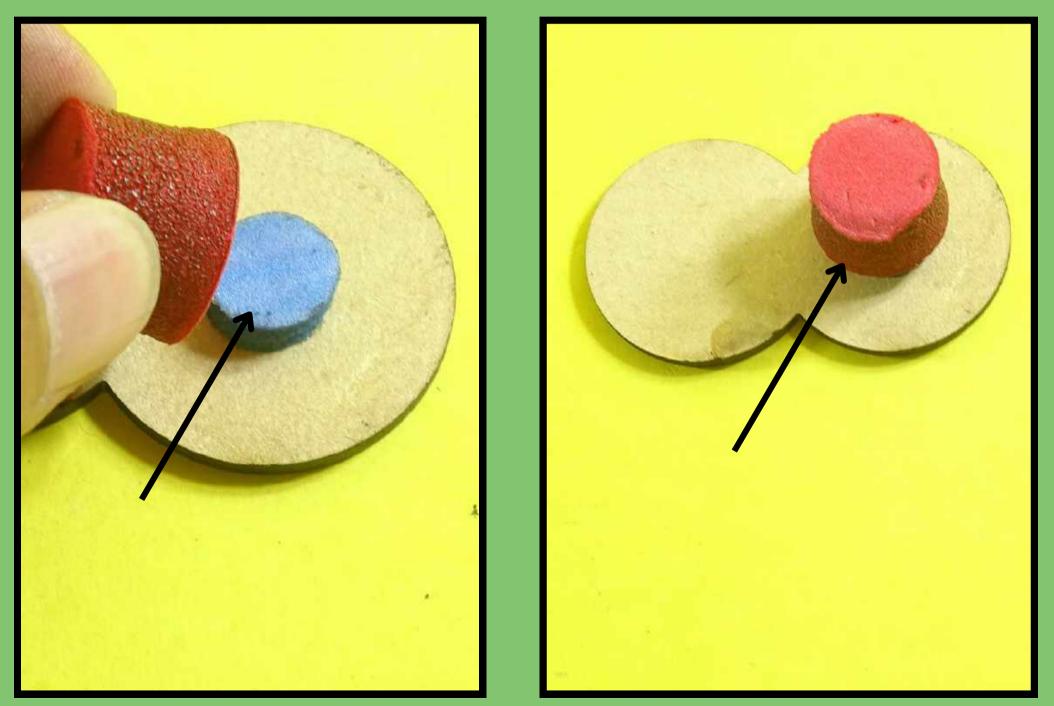
Put another washer inside the foam, just like it's shown







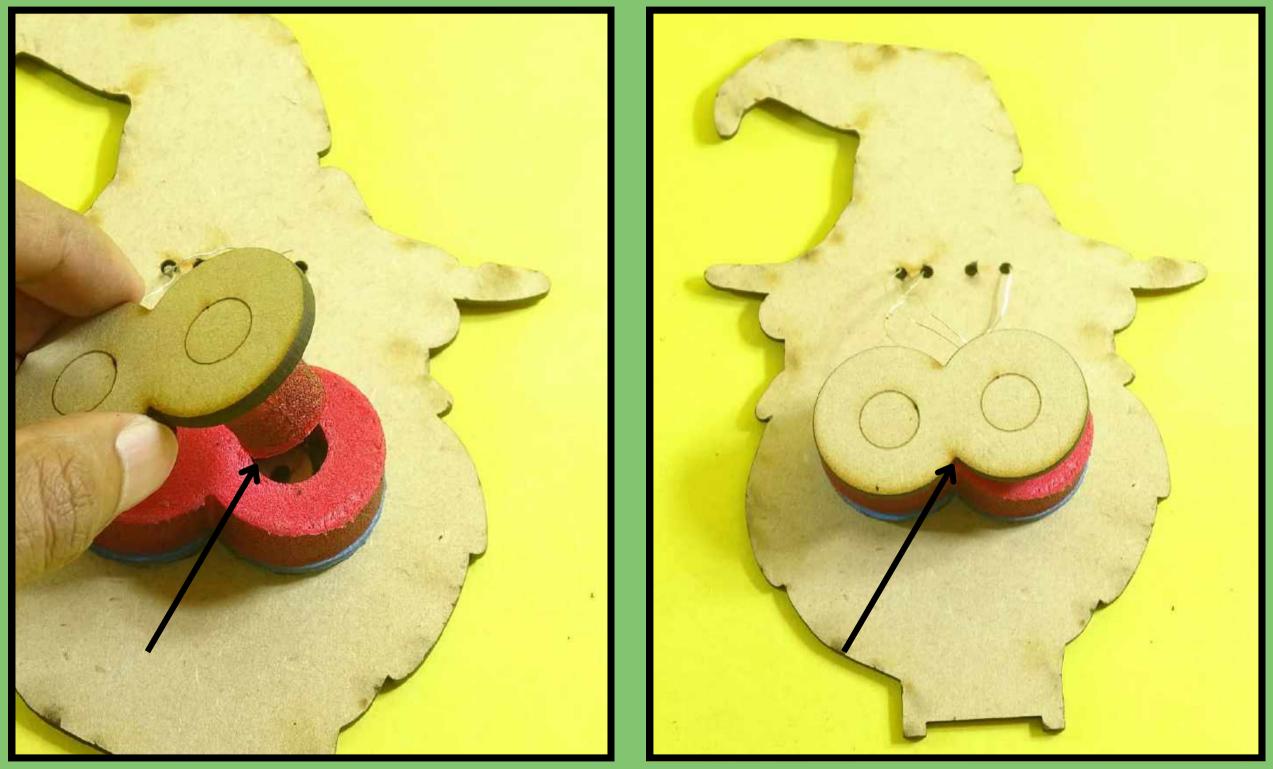
foam switch to it.



Take off the small double-sided sticker, stick it to the MDF, and then attach the

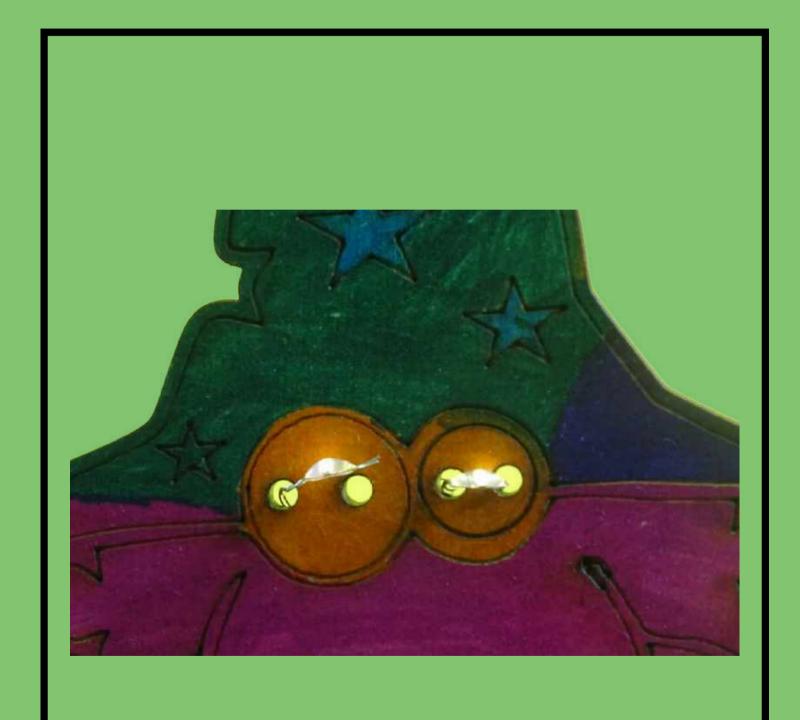
Connect the foam switch to the cell holder as demonstrated





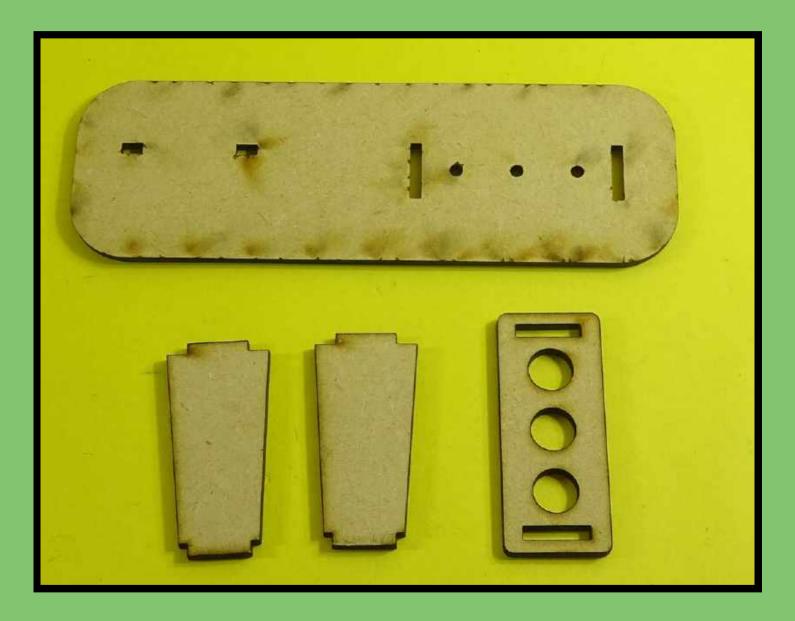
LED start glowing after connectiong switch to it





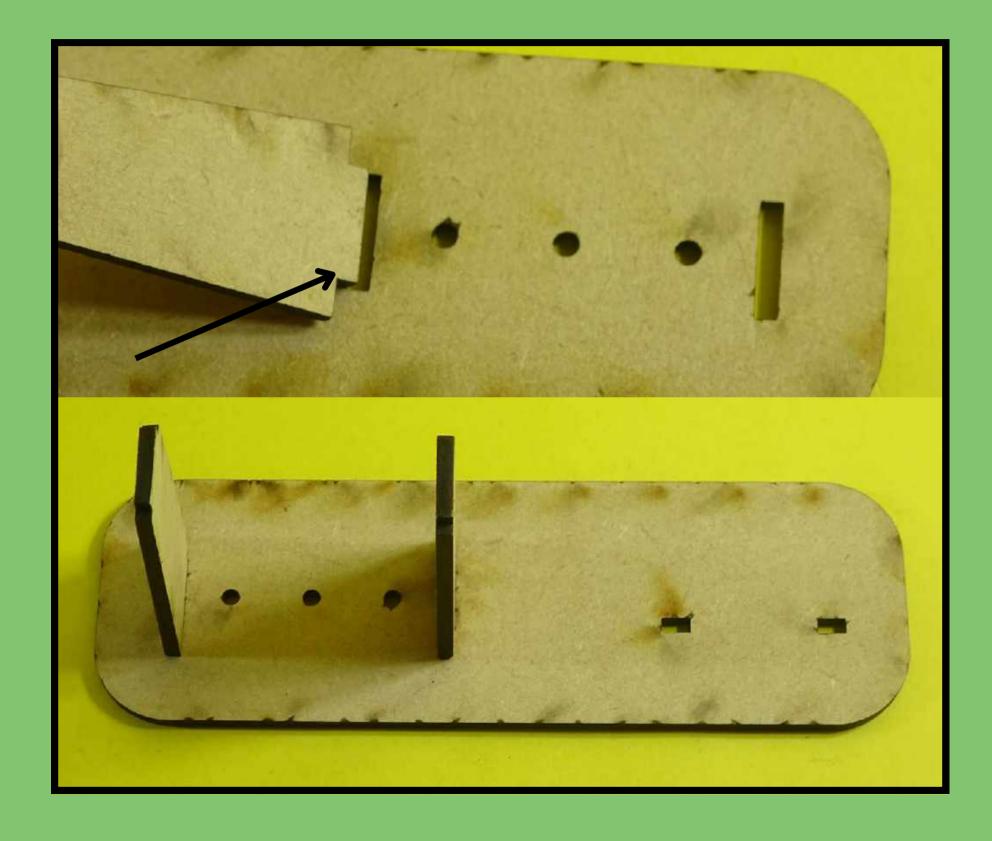
Take the below shown mdf segments

Attach the side part of the MDF to the base as shown

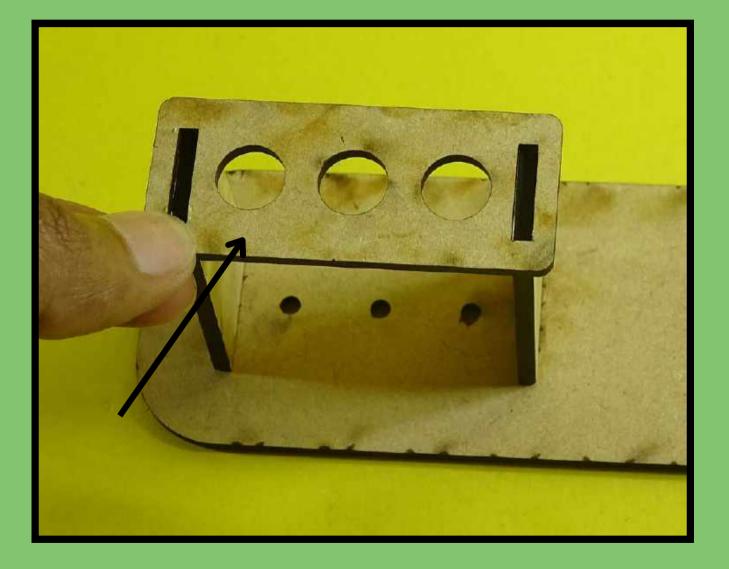


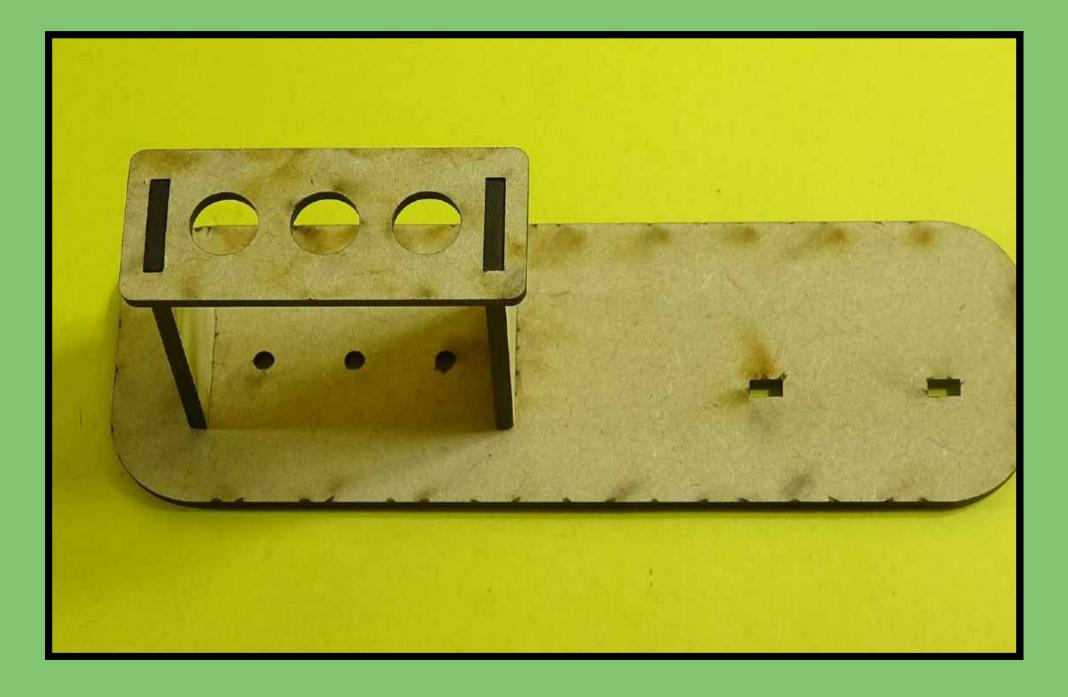


If the MDF parts are loose, use cello tape. If the MDF parts are tight, use sandpaper.

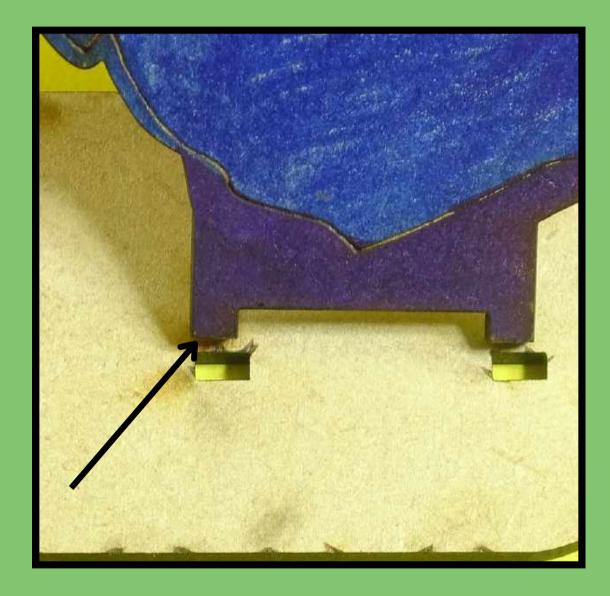


Attach the top part of the side mdf as shown





Insert the MDF with the connected LED into the base stand MDF





YOUR LED WIZARD IS READY



You can put pens in the MDF stand, just like it's shown

HOW IT WORKS?

The LED Wizard Experiment is like magic! We connect tiny light bulbs called LEDs to a battery. When we close the circuit, the LEDs light up, creating a beautiful display of colors. It's like making our own light show!

