



Light-Up Baseball Hats: Horns

Make a light-up baseball hat with horns.

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INTRODUCTION

Make a light-up baseball hat with horns.

You can make this project (and many more!) with our **Wearable Circuits Kit**.



TOOLS:

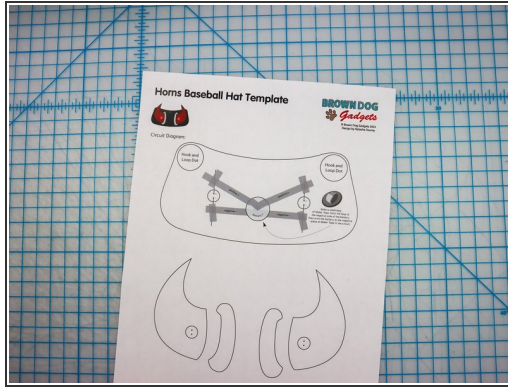
- [Hot Glue Gun](#) (1)
- [Hot Glue](#) (1)
- [Printer](#) (1)
- [Scissors](#) (1)
- [Push Pin](#) (1)
- [X-ACTO Knife](#) (1)



PARTS:

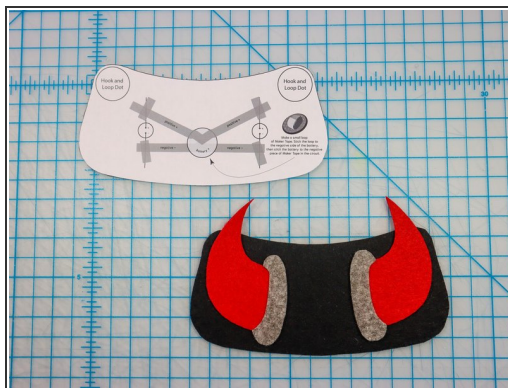
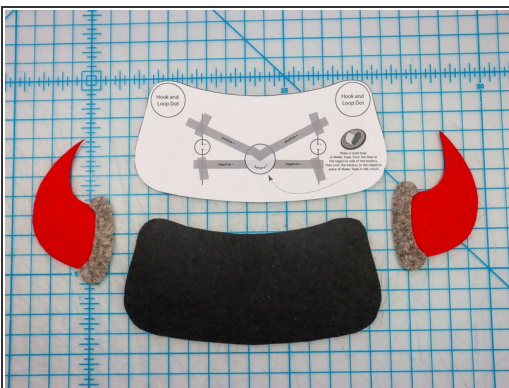
- [Wearable Circuits Kit](#) (1)
- [Felt](#) (1)
- [Black Baseball Hat](#) (1)

Step 1 — Print the Template & Gather Supplies



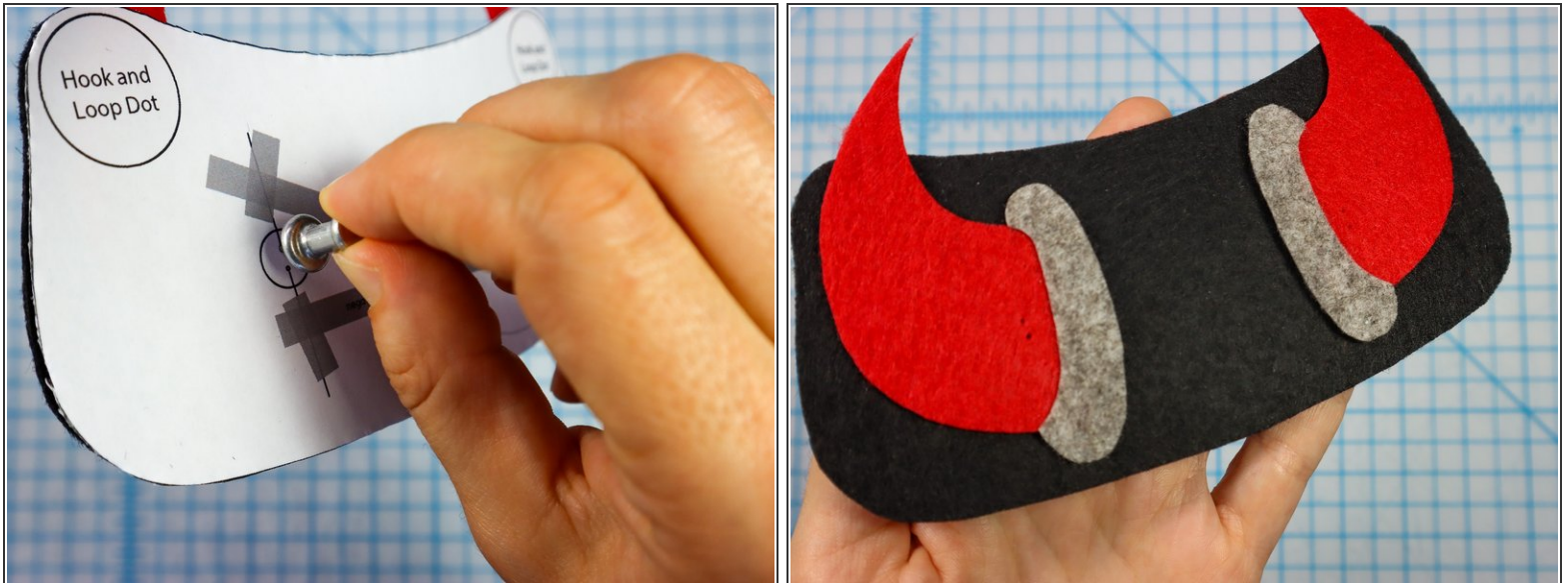
- Print out the template and gather these supplies:
 - Baseball Hat
 - Maker Tape
 - 10mm LEDs (2)
 - CR2032 Battery
 - Hook and Loop Dots (2)

Step 2 — Cut Out and Glue The Shapes



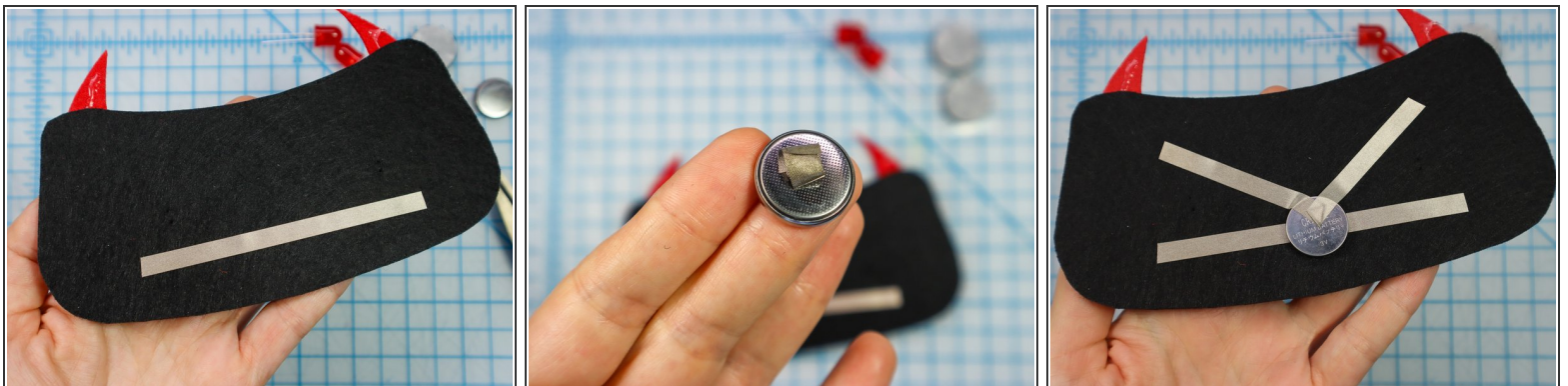
- Use scissors or an X-Acto knife to cut the template shapes out of felt as shown.
- Then, hot glue the shapes together.

Step 3 — Make Holes



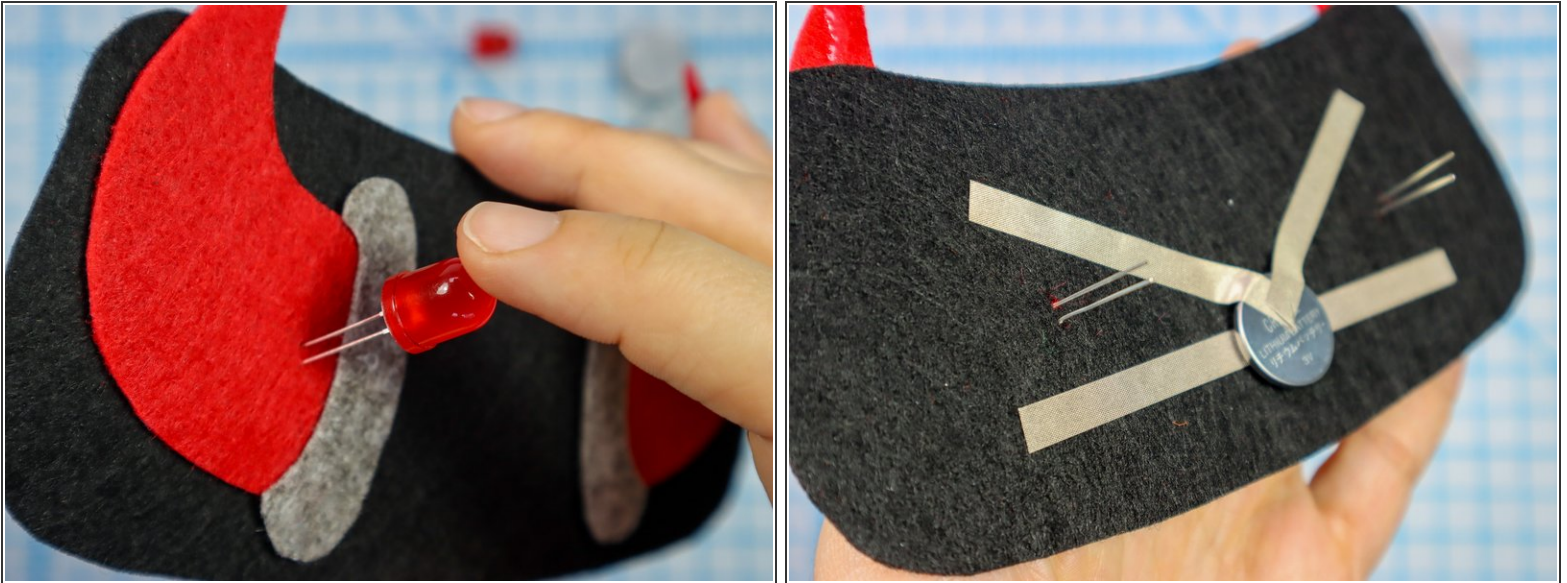
- Use a push pin to make two holes for the LED's legs. When the push pin is inside the felt, rotate it around a bit to make the hole larger and easier to see.

Step 4 — Add the Battery



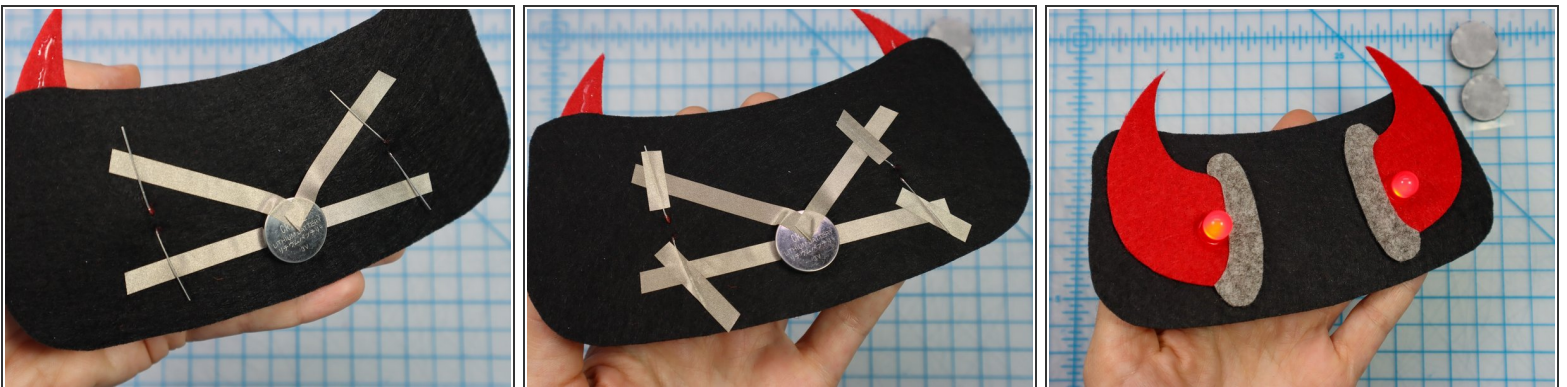
- Follow the circuit diagram on the template, starting with the piece on the bottom.
- Make a loop of Maker Tape with the adhesive side out and place it on the negative side of the battery.
- Place the battery on top of the Maker Tape as shown, and add the "V" shaped piece on top.

Step 5 — Insert the LEDs



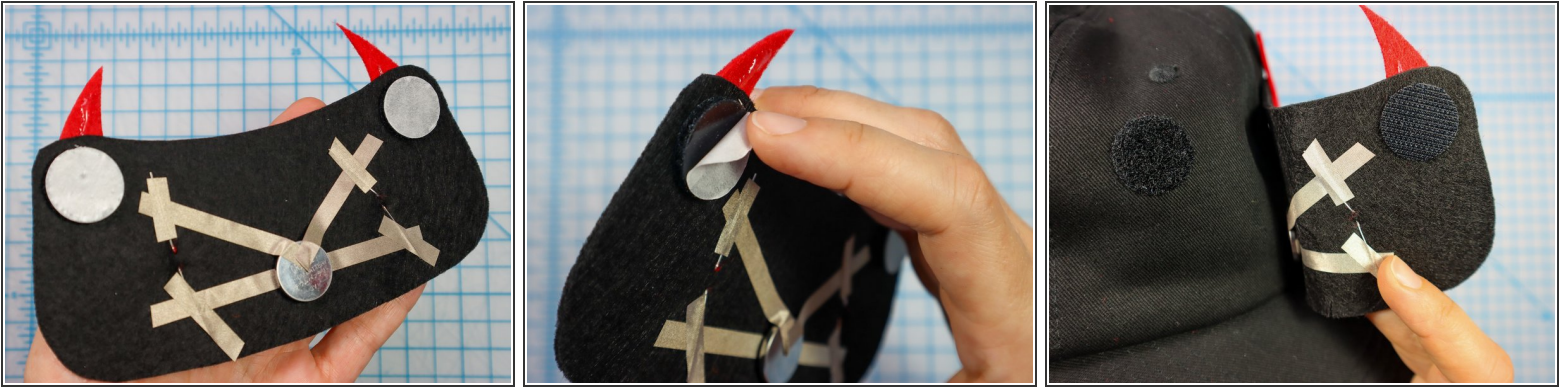
- Insert each LED through the holes with the longer, positive leg in the top hole.

Step 6 — Fold and Secure the LED Legs



- Fold each LED leg down flat against the felt, making sure the longer, positive legs touch the "V" and the shorter, negative legs touch the horizontal piece.
- Place a piece of Maker Tape on top of each leg to make a secure connection.
- The LEDs should light up!

Step 7 — Add the Hook and Loop Dots



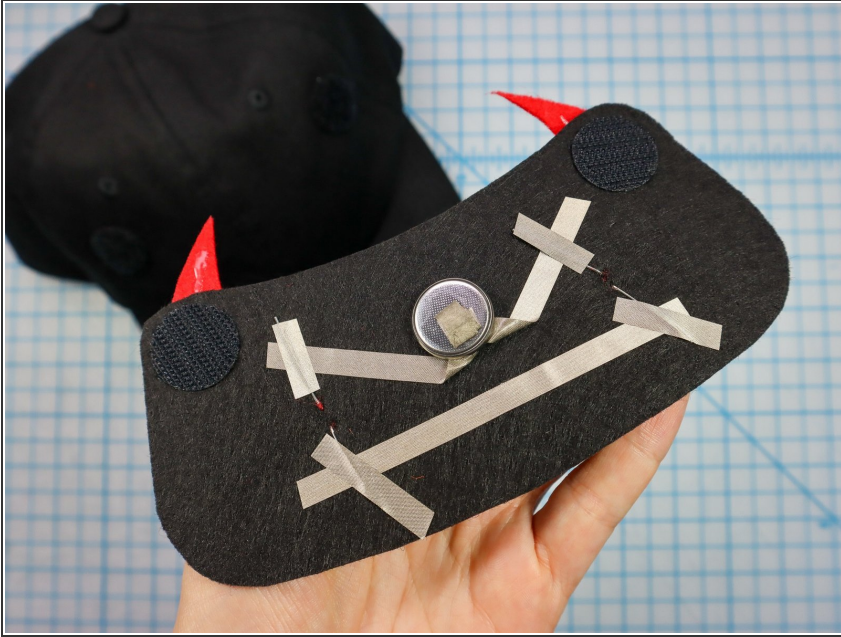
- Peel the paper backing off of each hook and loop dot and place it where shown on the template.
- Then, peel the paper backing off of the other side and stick the design to the hat.
- Carefully peel the hook and loop apart and squeeze each dot separately to set the adhesive.

Step 8 — Your Hat Is Ready to Wear!



- Put it on and let everyone admire your new fashion accessory.

Step 9 — Turn It Off...



- To turn off the LEDs, disconnect the battery by pulling apart the connection as shown.
- Store it in a way that prevents it from connecting.