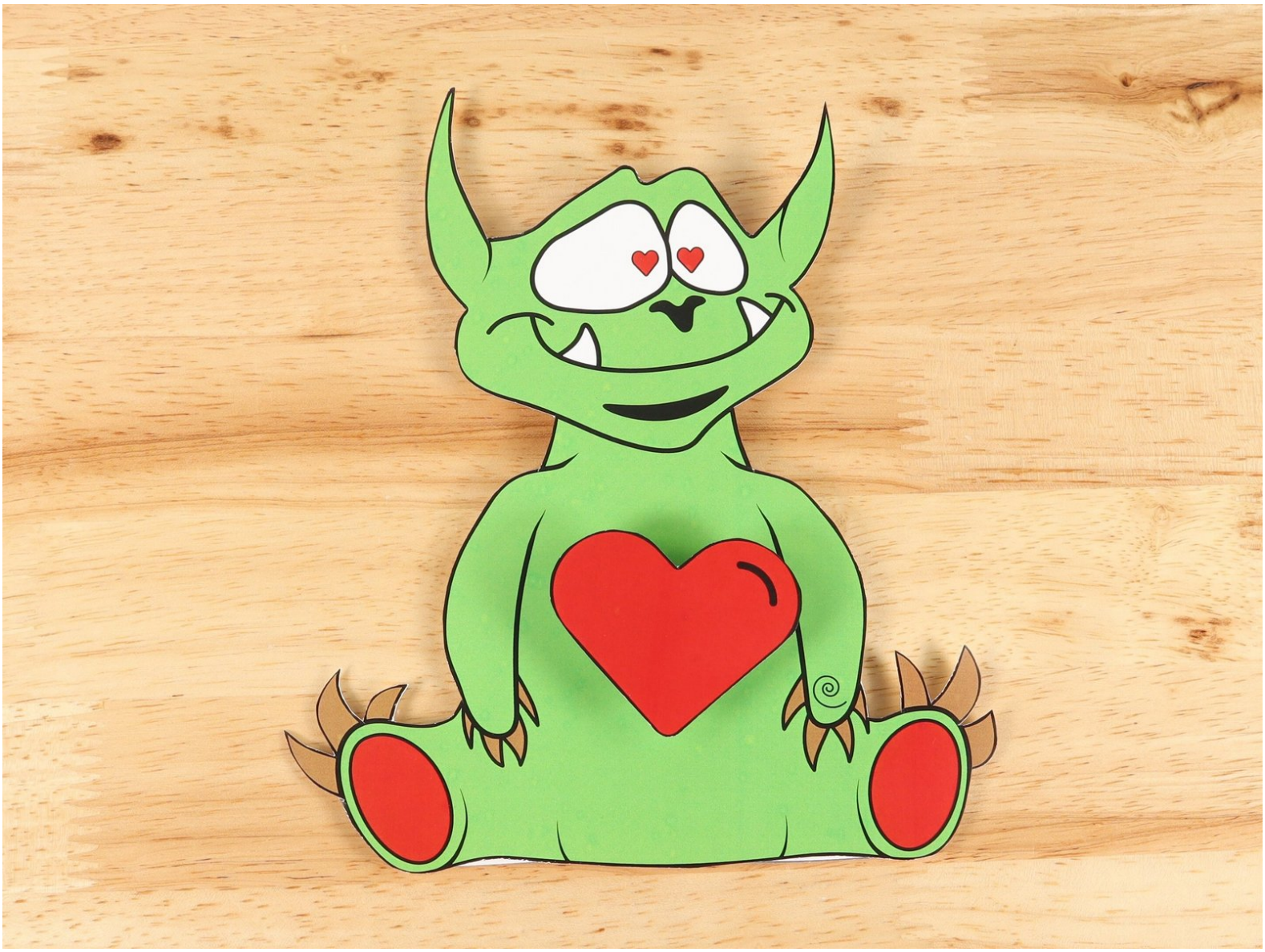
Love Monster

Create this love monster and make his heart spin!

Written By: Amanda Etim



INTRODUCTION

Create this love monster and make his heart spin!

This can be created with our **Paper Circuits Kit** and a barrel motor!

TOOLS:

- Scissors (1)
- Markers, Crayons, or Colored Pencils (1)

Optional

- Hot Glue Gun (1)

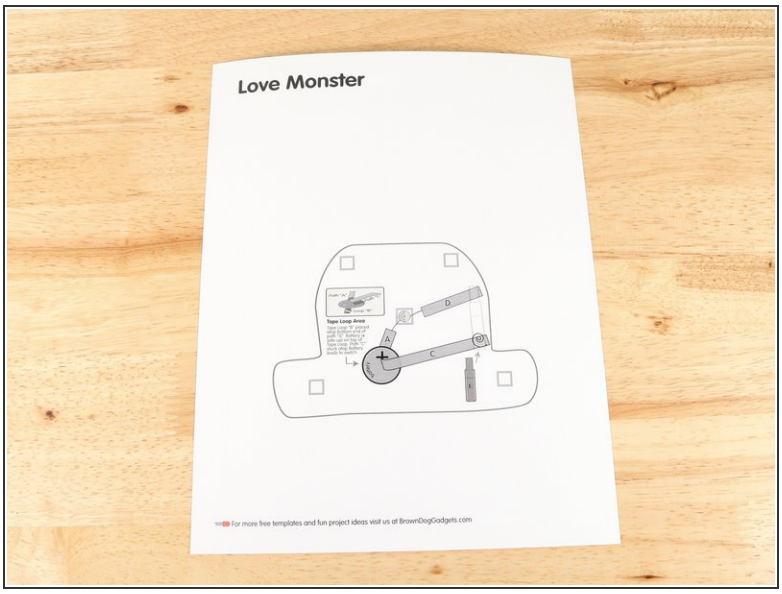
optional

PARTS:

- Paper Circuits Kit (1)
- Vibrating Bristlebot Motor (1)
- Foam Mounting Tape (1)

Step 1 — Printing Your Template



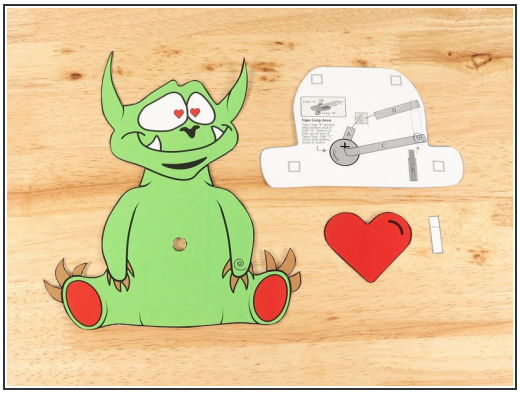


- Make sure to **print this template single-sided**. You will be making a project with two distinct layers with a small gap in between.

Step 2 — Color and Cut Template





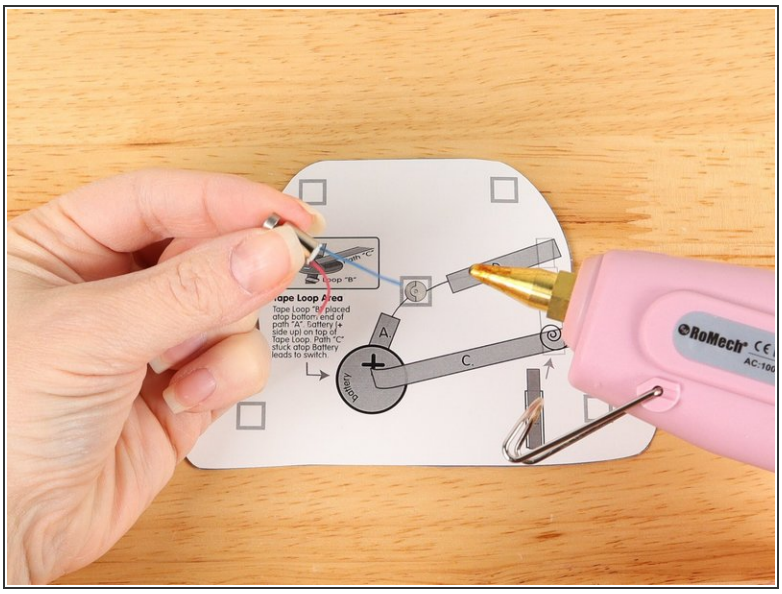


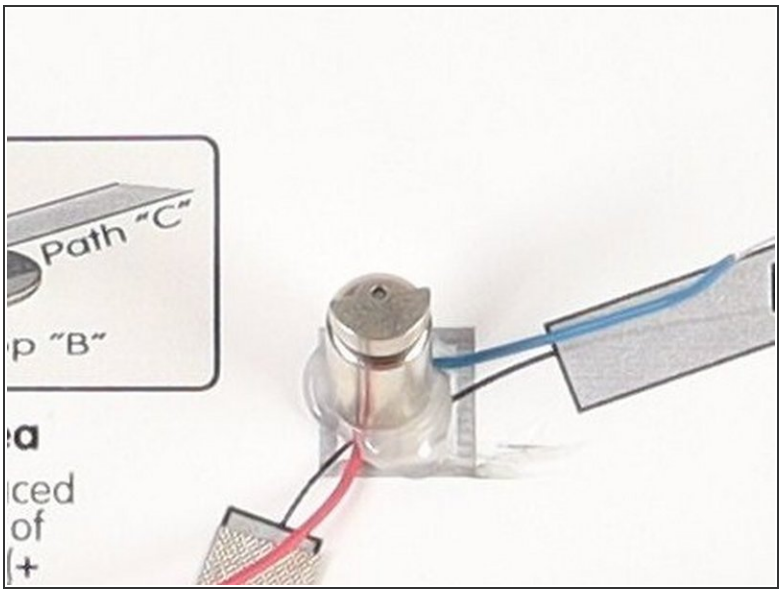
- **Color and cut** out the top layer of the monster template, the heart, and the switch.
- **Cut** out the small circle in the middle of the monster.
  - ⓘ We will be putting the motor through this hole in a later step.

ⓘ Decide if you want to cut out the template that has the circuitry. If you leave it uncut, the space on the paper around the monster can be decorated to depict a scene. Otherwise you can cut out the template before assembling.

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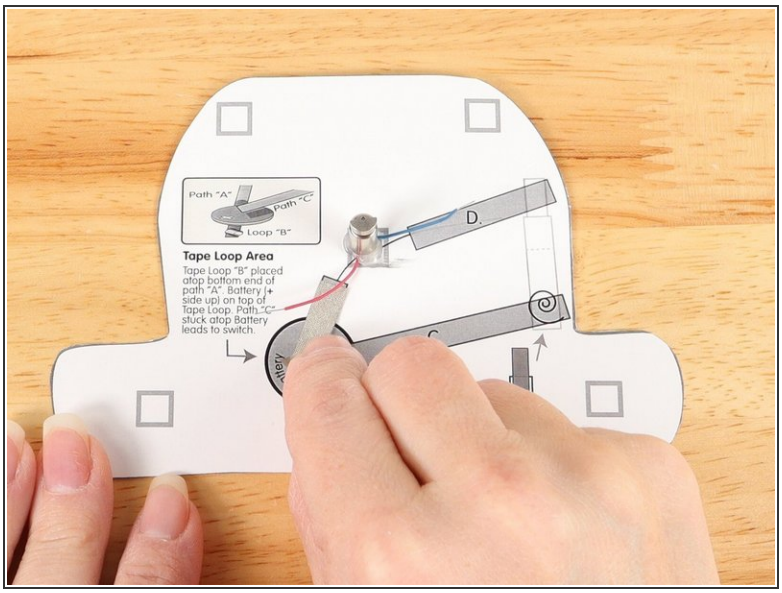
Step 3 — Add Motor

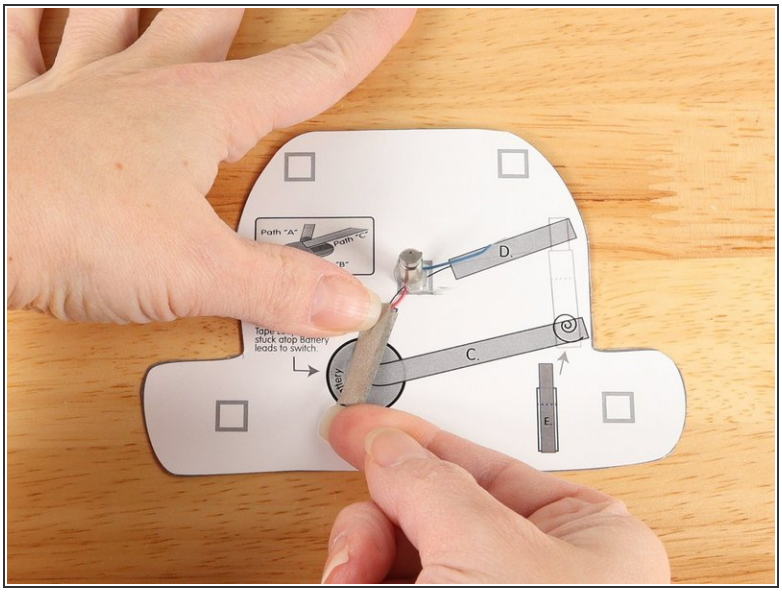




- **Add hot glue or double-sided foam tape** to the center of the bottom template where the motor will go.
- **Stick the motor to the hot glue or double-sided tape** making sure the back of the motor (with the wires) is stuck down to the glue/tape and the part that spins faces upwards so it can move freely.

Step 4 — Add Tape Path A.

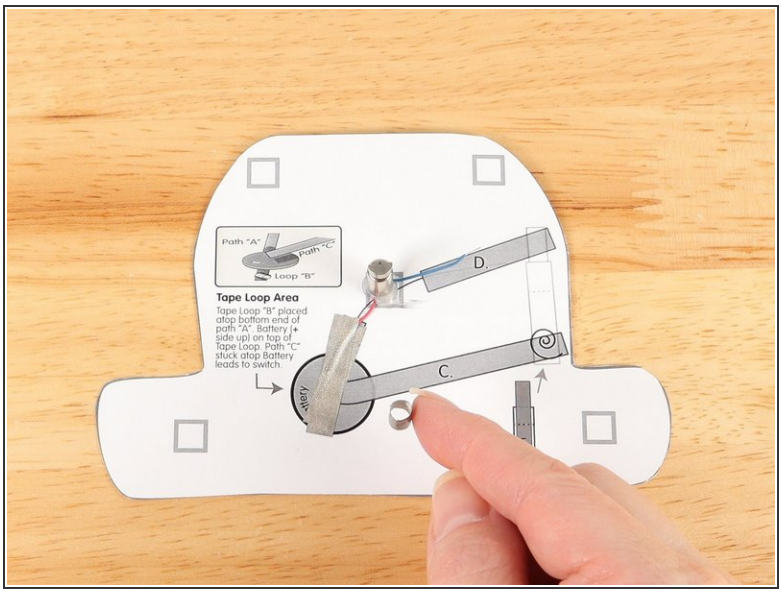


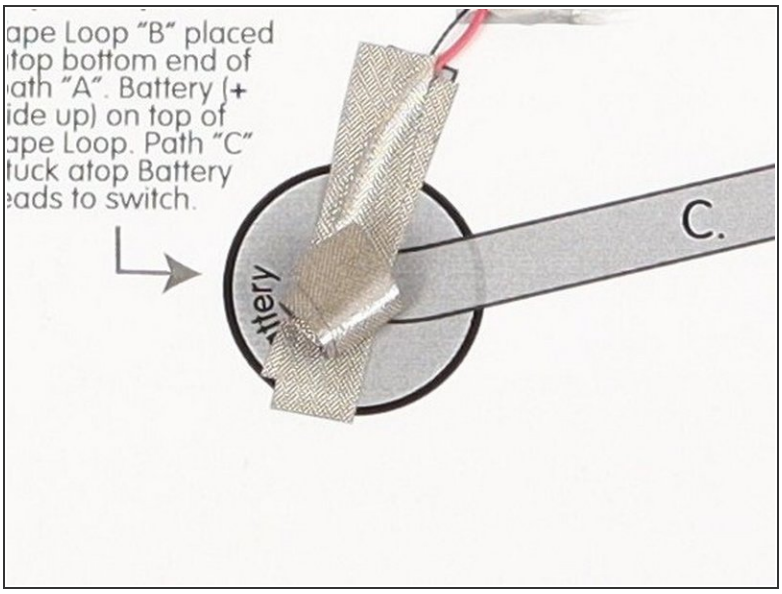


- **Add a strip of Maker Tape to Tape Path A.** under the wire motor.
- Add another piece of Maker Tape to **Tape Path A**. pressing it down atop the red wire.

ⓘ If your wires are reversed it will just change the direction the motor rotates.

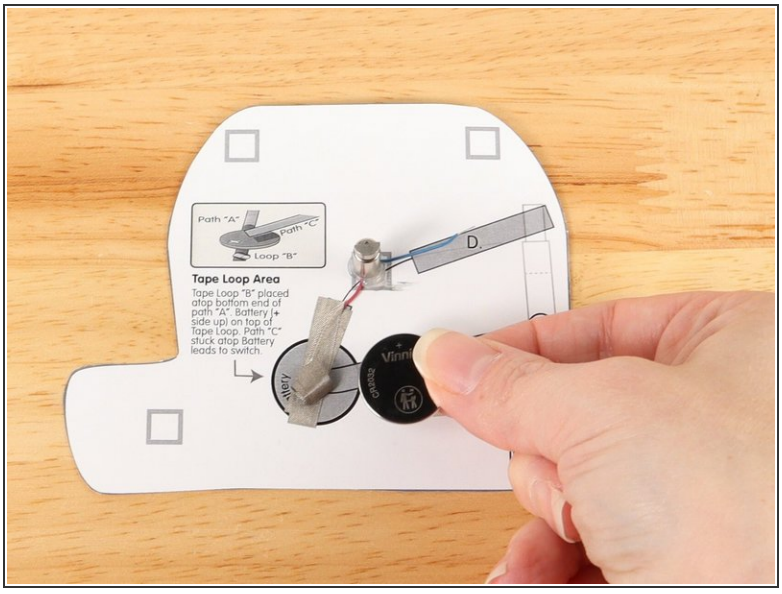
Step 5 — Add Tape Loop B.

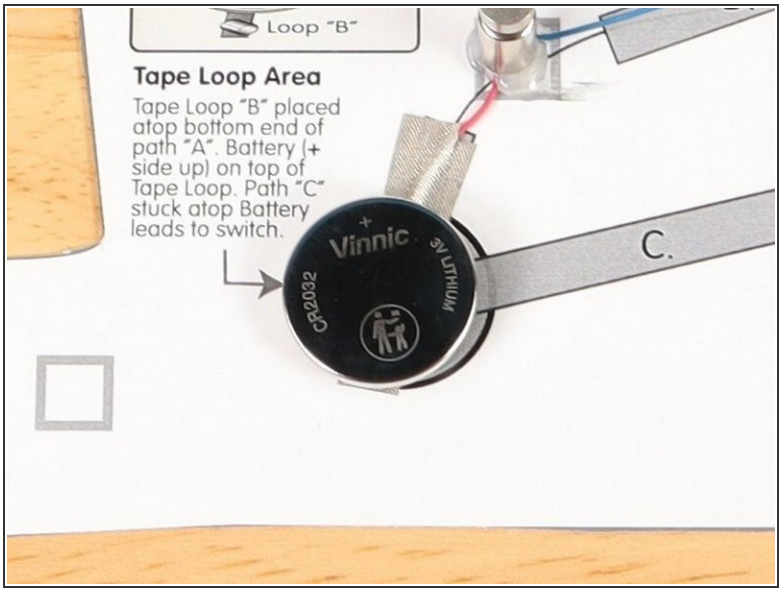




- Make a **loop of tape** (sticky side out) using a short piece of Maker Tape, and stick it atop the end of Path A.

Step 6 — Add Battery

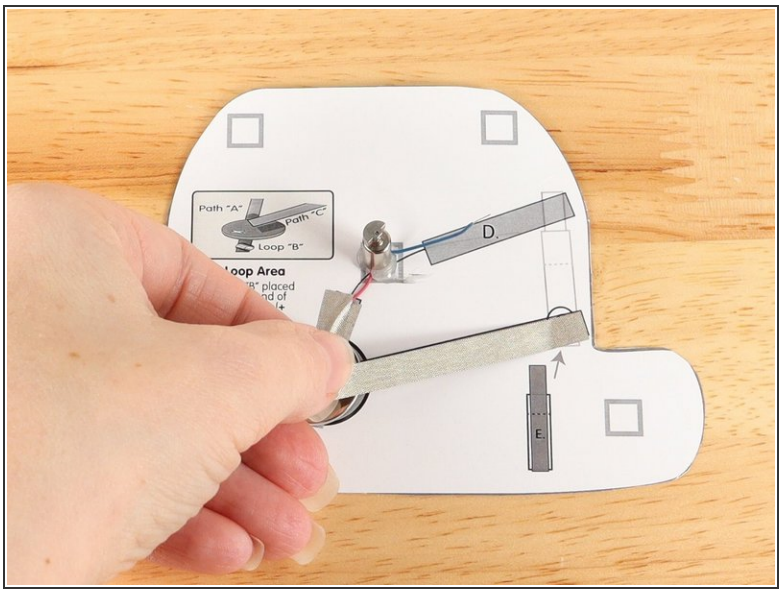


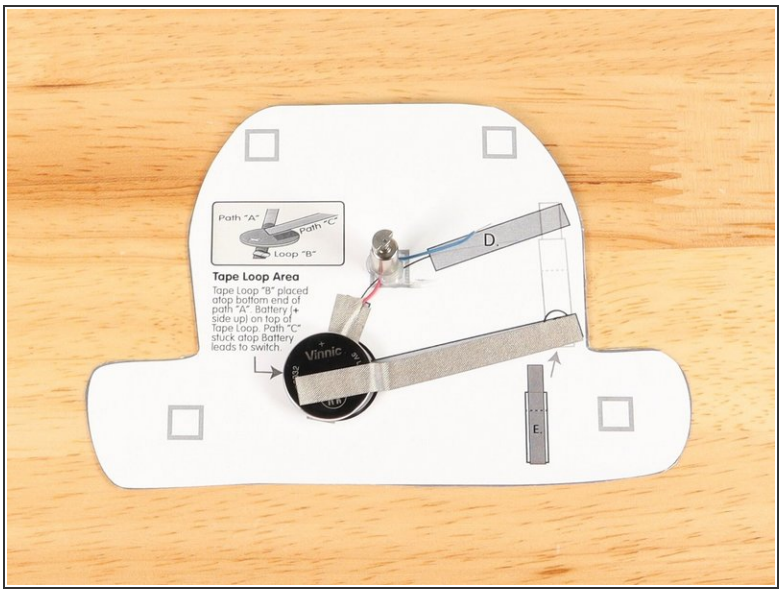


- Once your tape loop is in place you can add the **Battery** to it.

- [x] Make sure the **Positive** side of the Battery is facing upwards, with the **Negative** side stuck down to the tape.

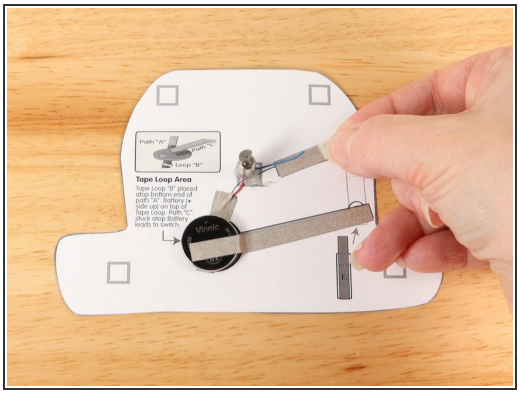
Step 7 — Add Tape Path C.



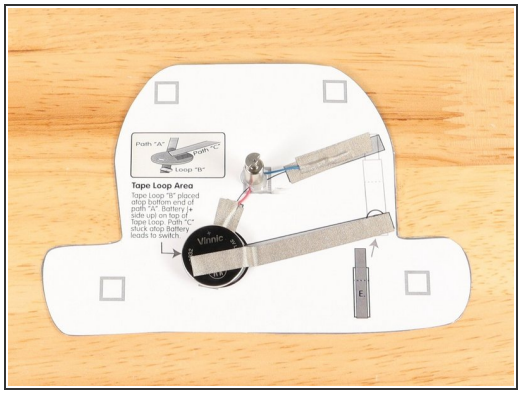


- Add **tape Path C.** to the top of the battery and onto the template.

Step 8 — Add Tape Path D.

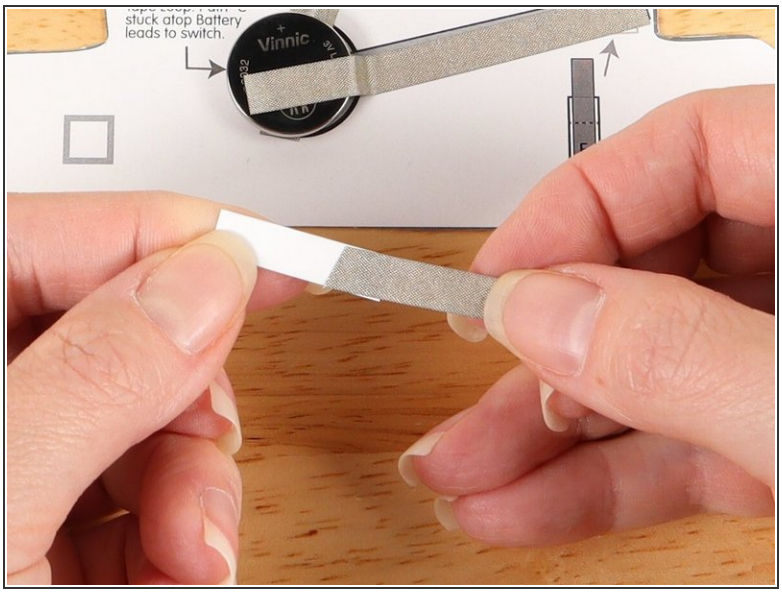


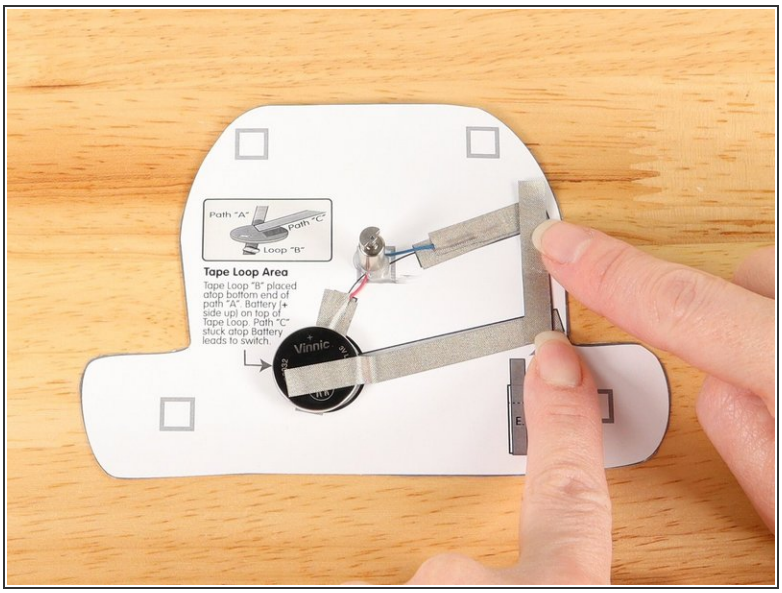




- **Add a strip of Maker Tape to Tape Path D.** under the wire motor.
- Add another piece of Maker Tape to **Tape Path D**. pressing it down atop the blue wire.

Step 9 — Add the Switch

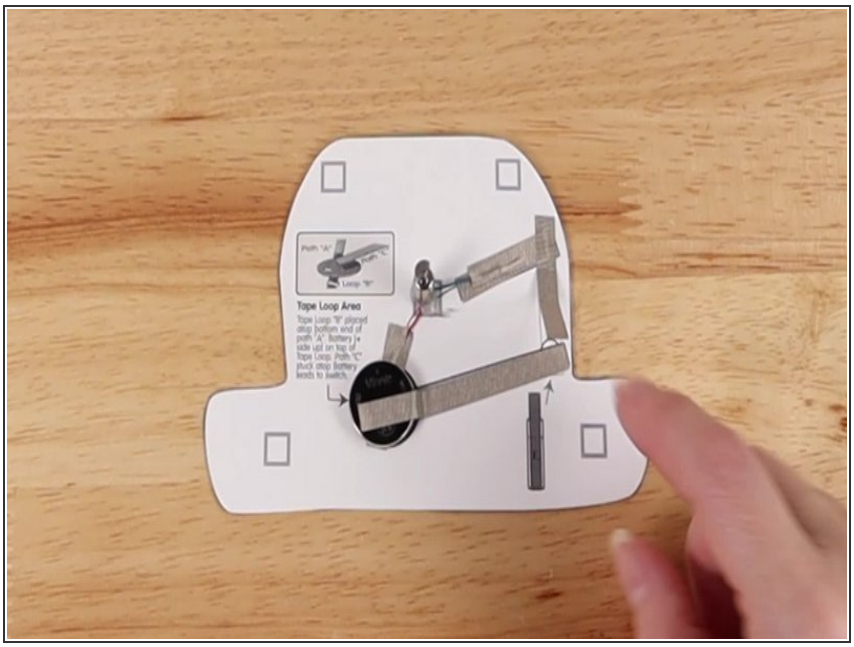




- If you haven't made a paper lever switch yet see the guide: Switch - Lever Switch
- **Add the paper switch to the end of Path D.** so that the Maker Tape overlaps.
- Make sure the other end of the paper switch comes in contact with Path C.

ⓘ If the switch does not reach the Path D. tape you can adjust and add more Maker Tape as needed.

Step 10 — Test the Circuit



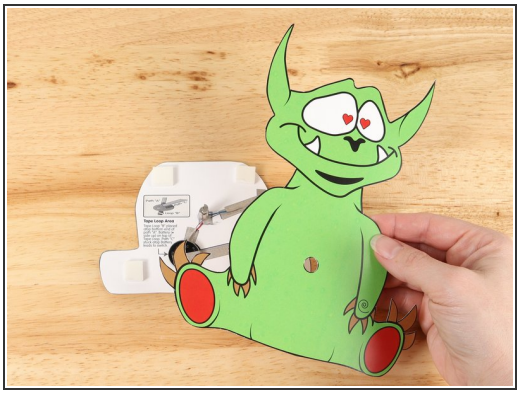
- At this point you should **test the circuit** to make sure it works. When you press down on the switch the motor should spin.

ⓘ It is easier to fix the circuit if it is not working before adding the top monster layer.

- If it does not spin...
  - Make sure that your switch is making contact.
  - Make sure your motor can spin freely and doesn't have tape or glue impeding movement.

Step 11 — Add Monster



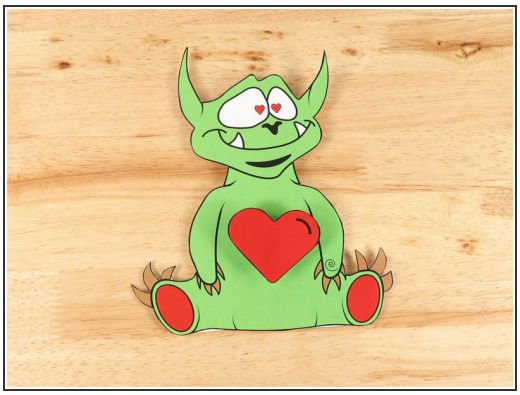




- **Add four small pieces of double-sided foam tape** to the squares around the outline of the monster.
- **Place the monster template over the top** of the motor so the motor goes through the small hole you cut earlier.
- Press down on top of the template to adhere the top layer to the foam tape.

Step 12 — Add Spinning Heart



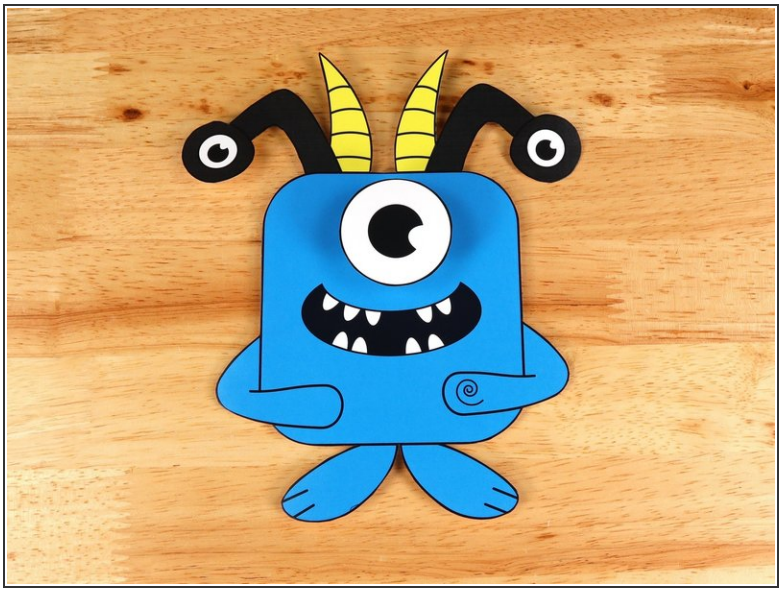
- Add hot glue or another square of double-sided tape onto the middle of the heart template, and then **stick the heart to the top of the motor.**

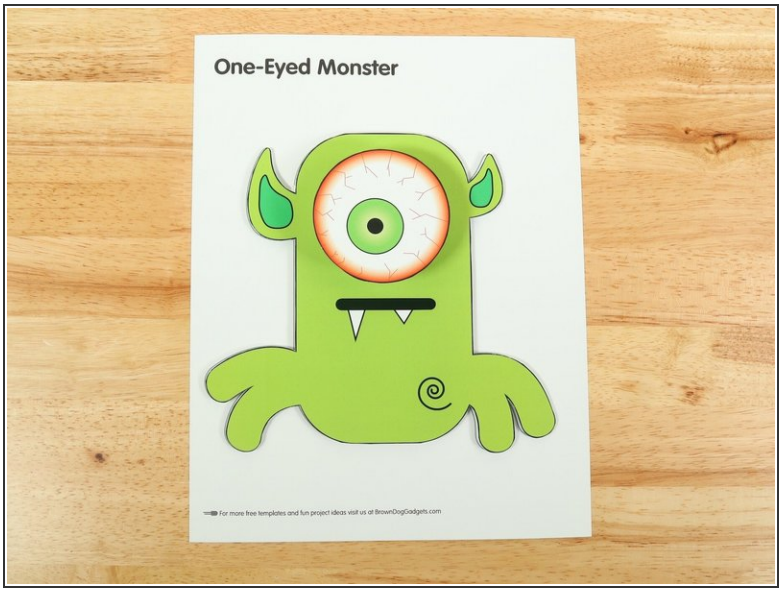
Step 13 — Test it Out!



- The switch is underneath the swirl pattern on the monster. Tap the swirl to make your monster's heart spin!

Step 14 — More Monsters!





- Check out these other monsters and create them for your next project!
  - Three Eyed Monster
  - One Eyed Monster