



Folding Shamrock

Use an LED, a CR2032 battery, and Maker Tape to make a folding shamrock.

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INTRODUCTION

Use an LED, a CR2032 battery, and Maker Tape to make a folding shamrock paper circuits project.

You can make this project (and many more!) with our [Paper Circuits Kit](#).



TOOLS:

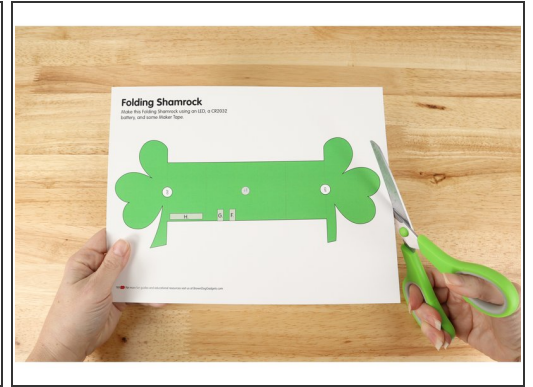
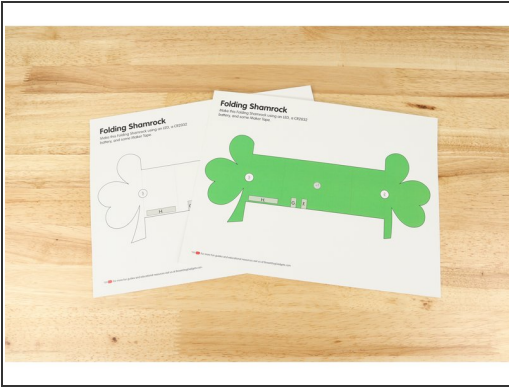
- [Scissors](#) (1)
 - [Markers, Crayons, or Colored Pencils](#) (1)
- optional



PARTS:

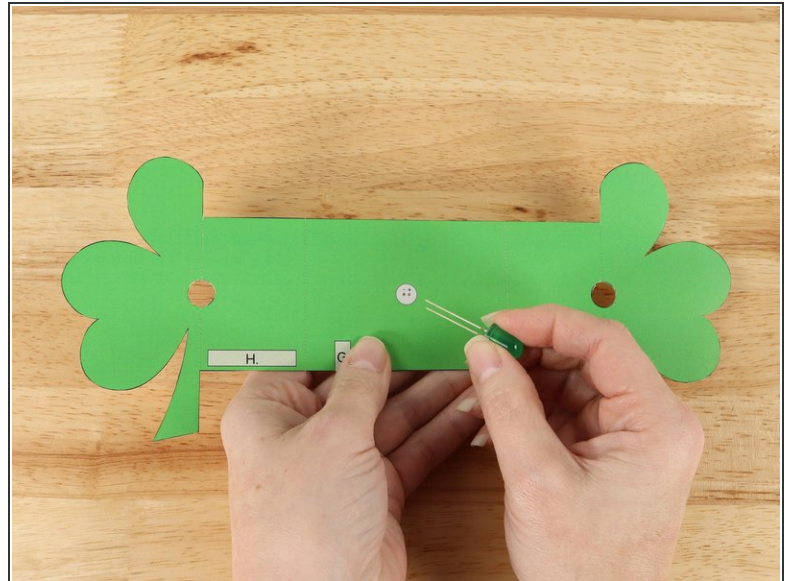
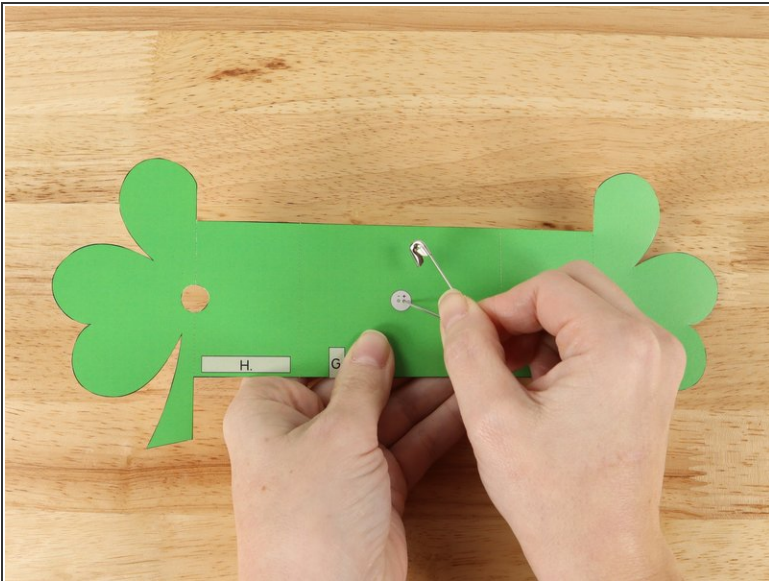
- [Paper Circuits Kit](#) (1)

Step 1 — Print, Cut, and Color Template



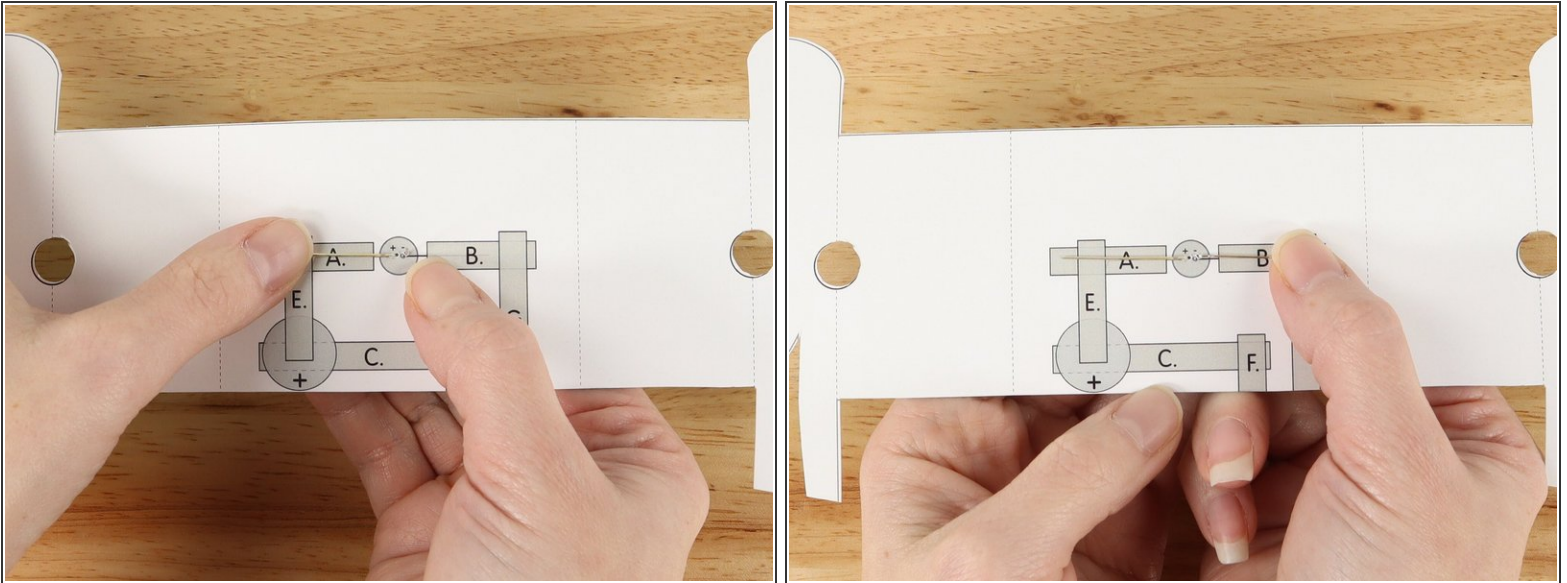
- **Print out the template** on heavy cardstock.
 - **Color and cut out** the template.
- ❗ We have included a full color template as well as a black and white template. Print the one that works better for your printing needs.

Step 2 — Add LED



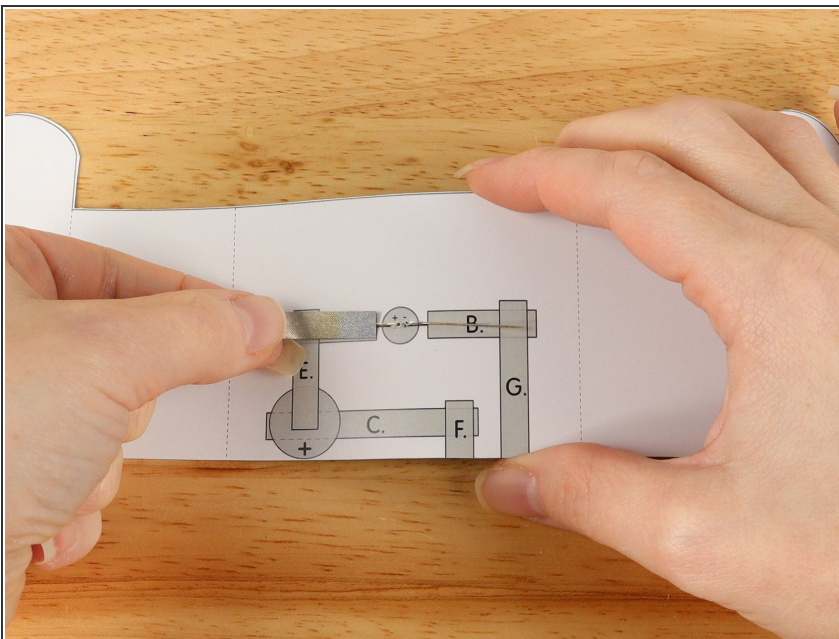
- Use a safety pin or a thumbtack to **poke holes** for the LED legs to go through.
- **Insert LED** into holes paying close attention to the orientation of the LED legs. The **Long leg is Positive** and **Short leg is Negative**.

Step 3 — Bend LED Legs



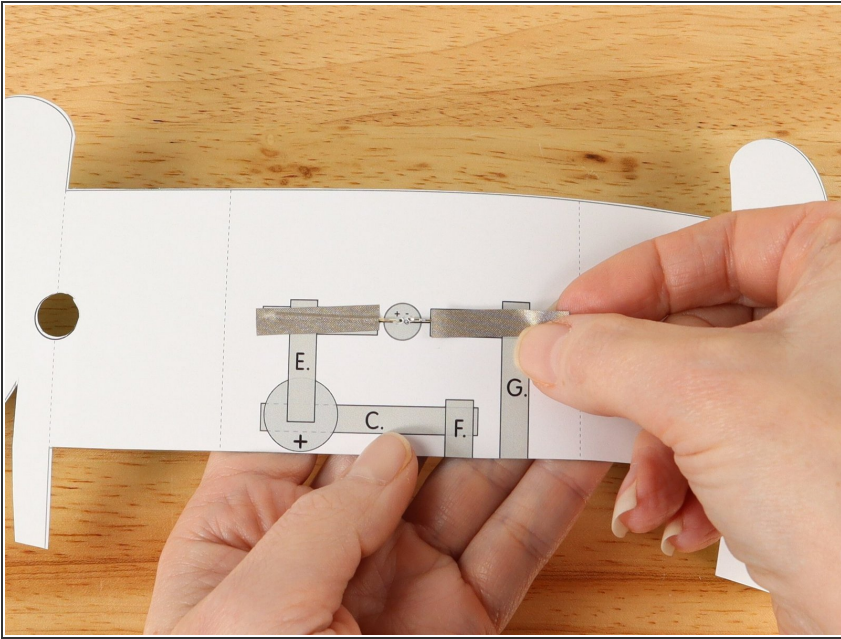
- **Bend the LED legs** flat on the back following the diagram.

Step 4 — Tape Path A



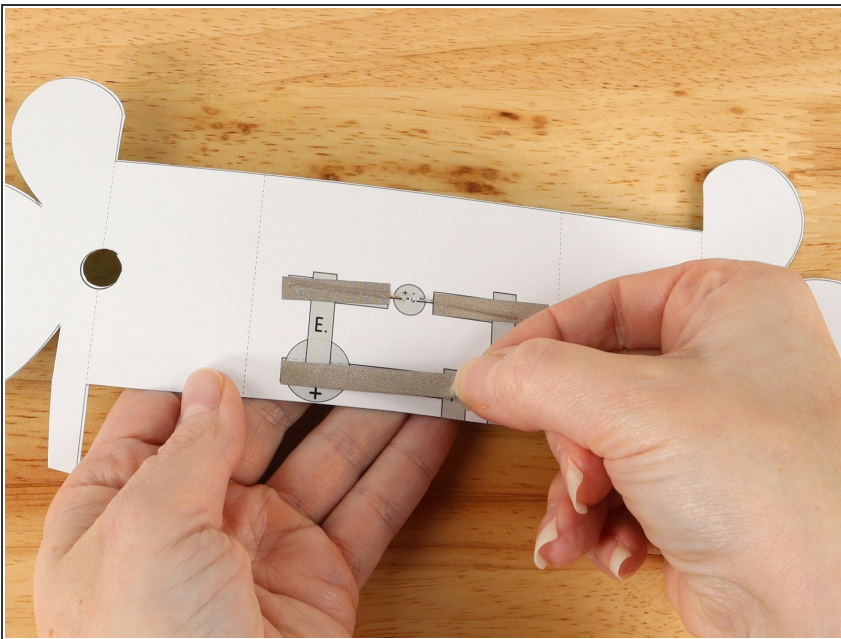
- **Add Maker Tape** to tape path A. over the top of the LED leg.

Step 5 — Tape Path B



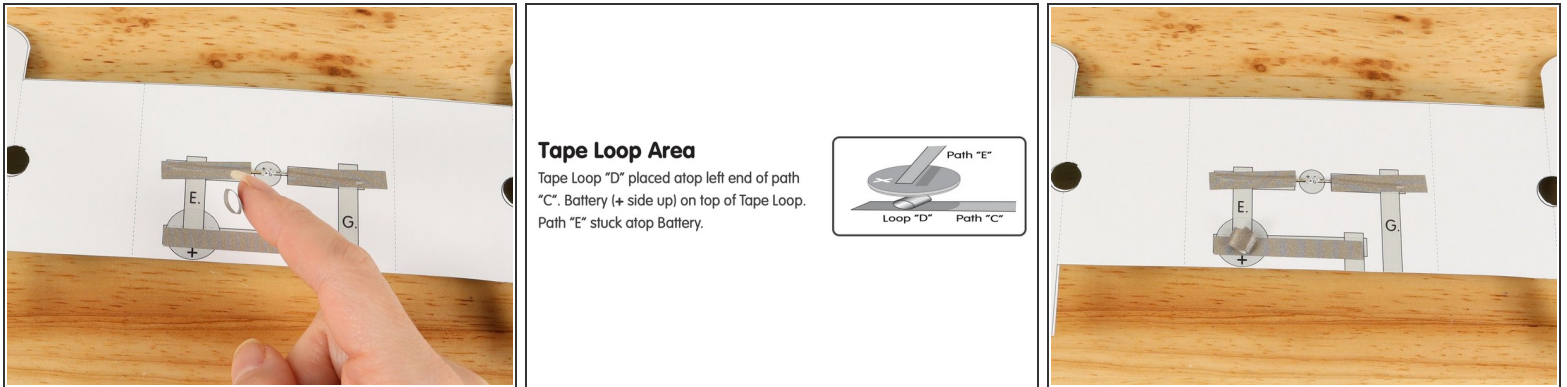
- **Add Maker Tape to tape path B.**
over the top of the LED leg.

Step 6 — Tape Path C



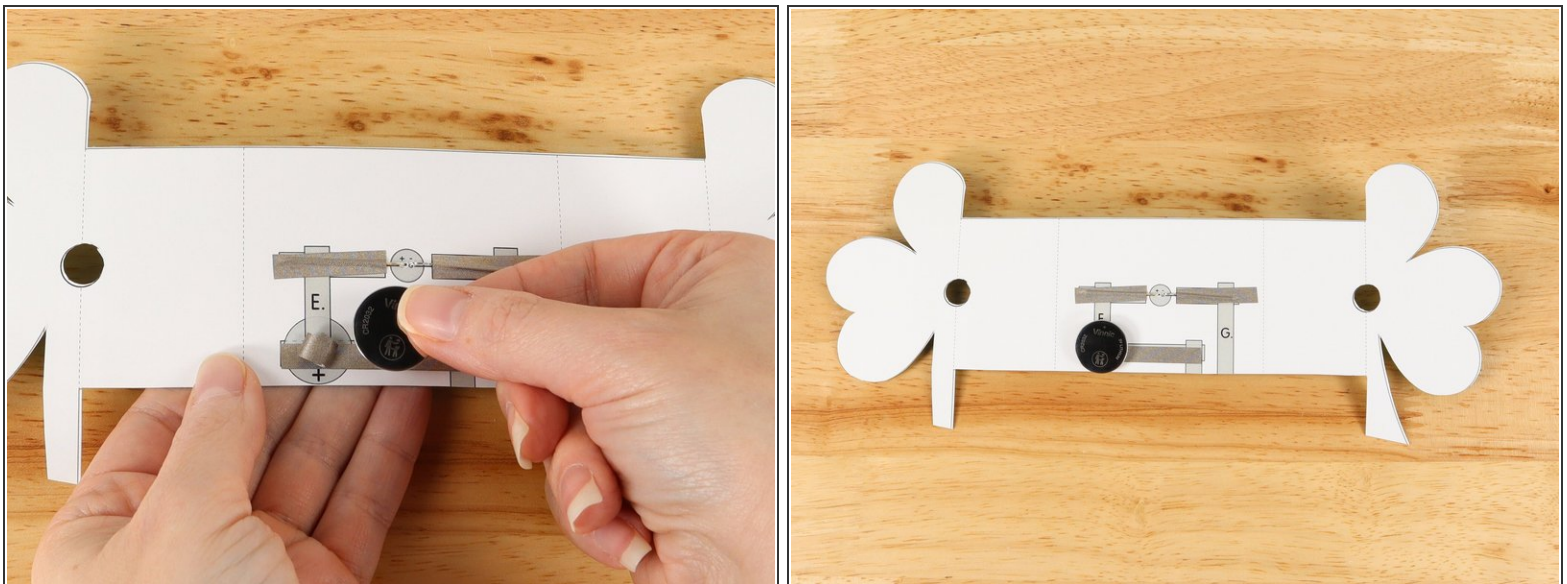
- **Add Maker Tape to tape path C.**

Step 7 — Add Tape Loop



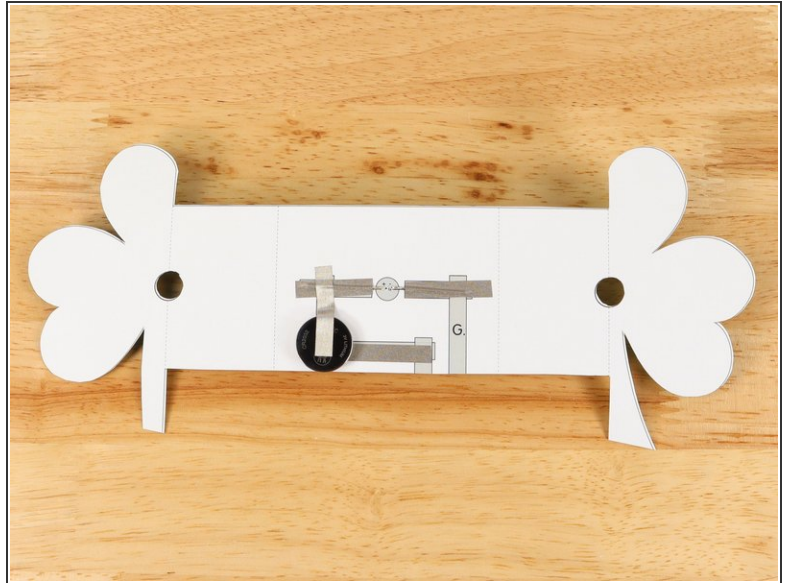
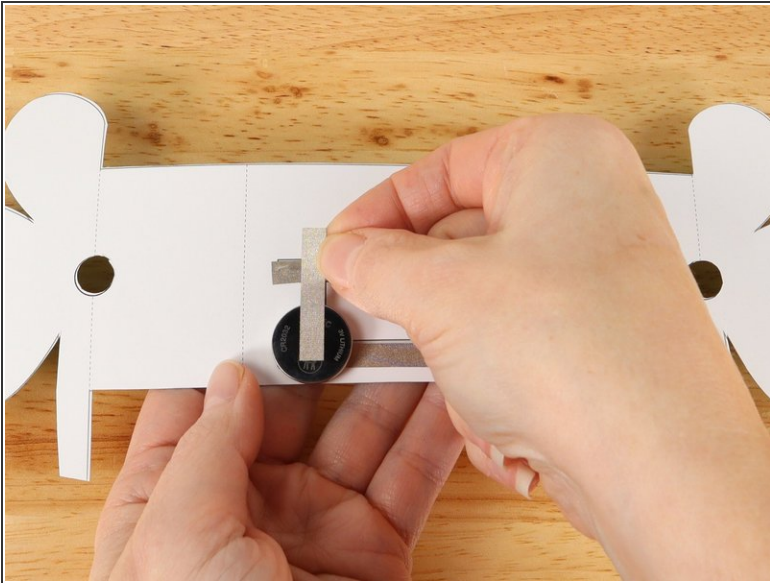
- Make a **loop of tape** (sticky side out) using a short piece of Maker Tape, and stick it atop the left end of tape path C.

Step 8 — Add Battery



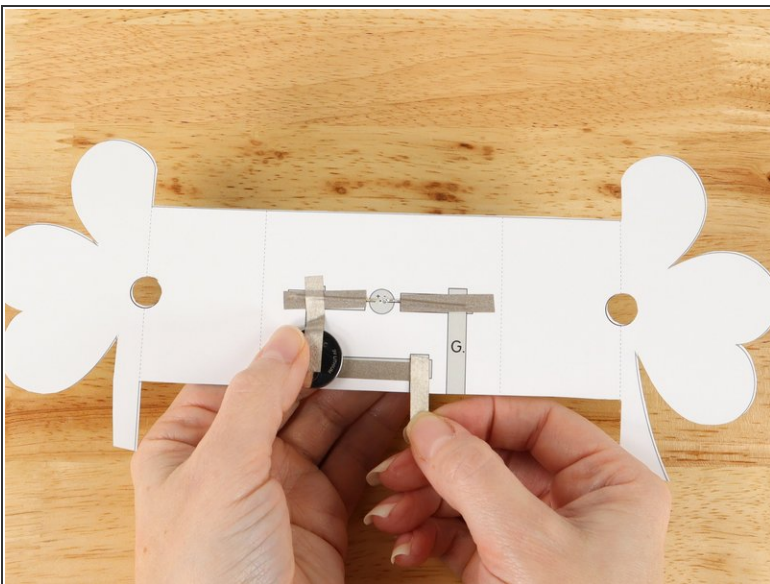
- Once your **Tape Loop** is in place you can add the **Battery** to it.
- ☒ Make sure the **Positive** side of the Battery is facing upwards, with the **Negative** side stuck down to the tape.

Step 9 — Tape Path E



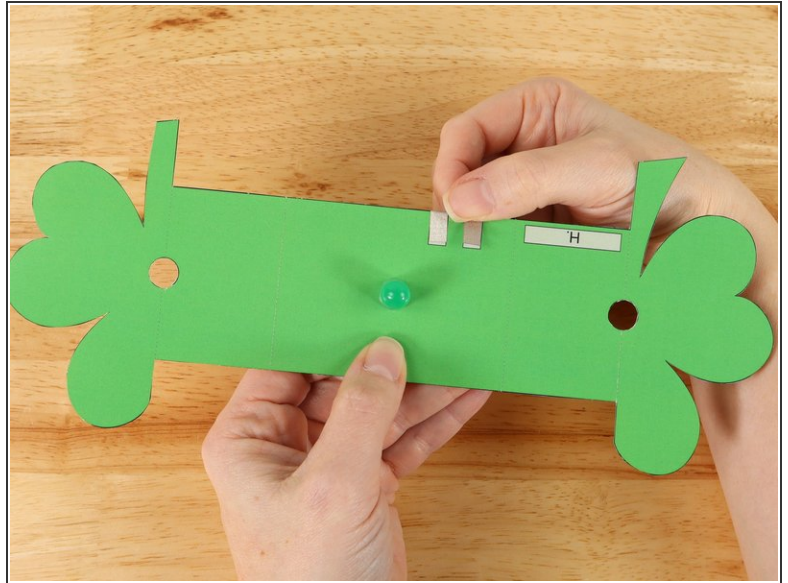
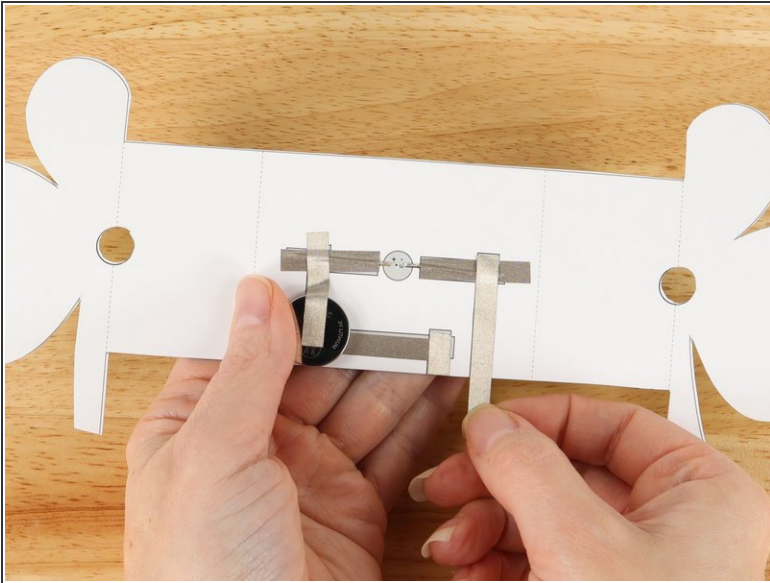
- **Add Maker Tape to tape path E.**

Step 10 — Tape Path F



- **Add Maker Tape to tape path F.** This piece of Maker Tape will overlap with the right end of tape path C and wrap around the bottom of the project to the front side.

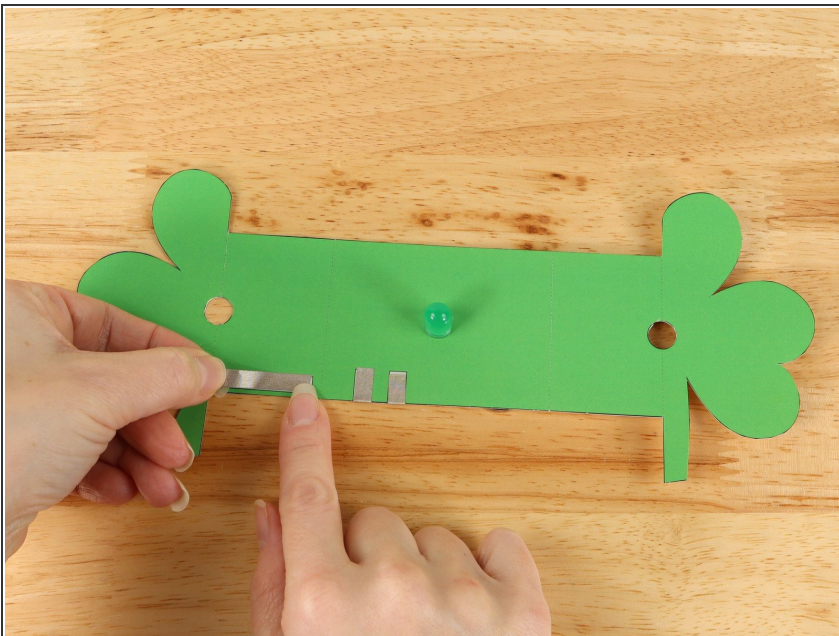
Step 11 — Tape Path G



- **Add Maker Tape to path G.** This piece of Maker Tape will overlap with the right end of tape path B and wrap around the bottom of the project to the front side.

⚠ This path should not connect with path F. We will add a switch to control the project.

Step 12 — Add Switch - Path H



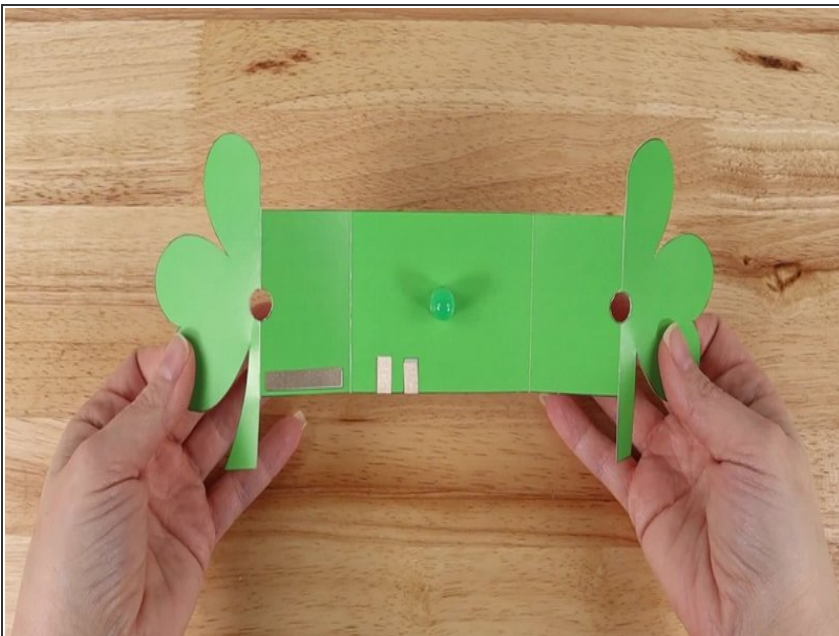
- **Add Maker Tape to path H.** This path does not connect with any other pathway until the project is folded up.

Step 13 — Fold Shamrock



- To fold the shamrock into the correct shape, using a mountain fold as pictured, **fold along the two outermost dotted lines**.
- **The two innermost dotted lines should be folded with a valley fold**. When done correctly, the two halves of the shamrock will line up with each other around the LED.

Step 14 — Folding Shamrock Assembled



- Your Folding Shamrock craft is assembled and ready to celebrate the holiday in style!