Light-Up Shamrock St. Patricks Day Coaster

Make a St. Patrick's Day Coaster that lights up your drink when you place a glass mug on it.

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INTRODUCTION

You will need:

Legos (lots of plate pieces)

Crazy Circuits: Coin Cell Battery Holder

Crazy Circuits: Green LEDs (4)

Crazy Circuits: Switch

Maker Tape

Green Vinyl

White Cardstock

Optional: Contact paper to keep the design in place

PARTS:

- Crazy Circuits Coin Cell Battery Holder (1)
- Mini LED Chip (4)

Green

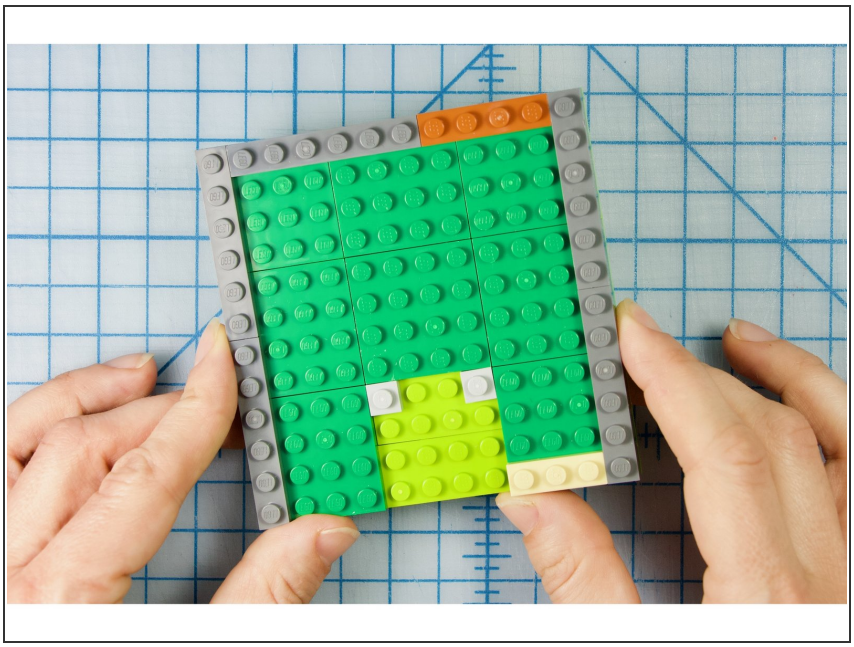
- Crazy Circuits Jumbo Pushbutton Chip (1)
- Maker Tape (1)
- LEGO Bricks (1)
- Vinyl (1)

Green

- Cardstock (1)

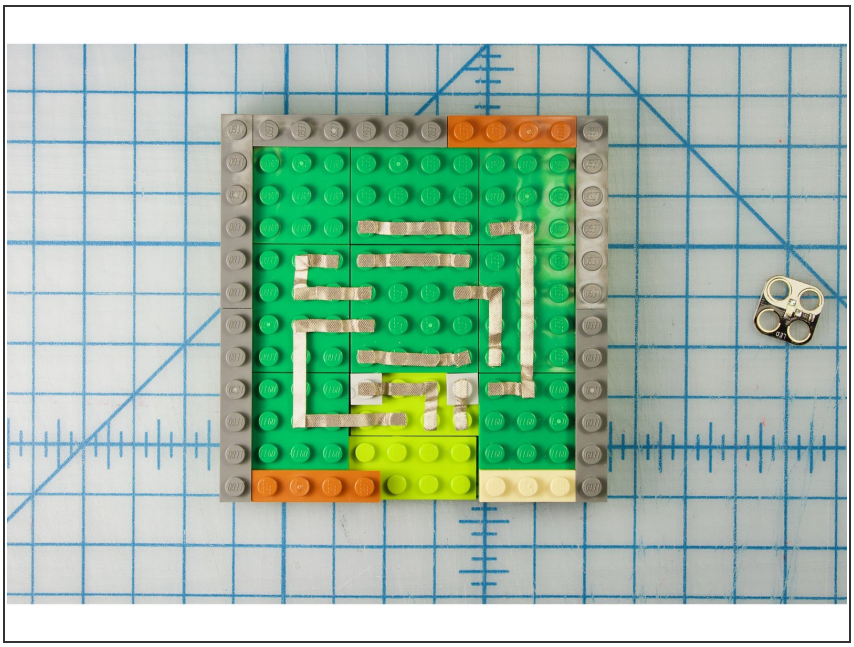
White

Step 1 — Light-Up Shamrock St. Patricks Day Coaster



- Build up 2 plate layers, 12 studs across and down except a square section at that bottom as shown. This will create a space for your battery component.
- Line the square with a boarder of 1 stud wide plates.
- Add two studs at the top fo the battery square as shown. (pictured in grey)

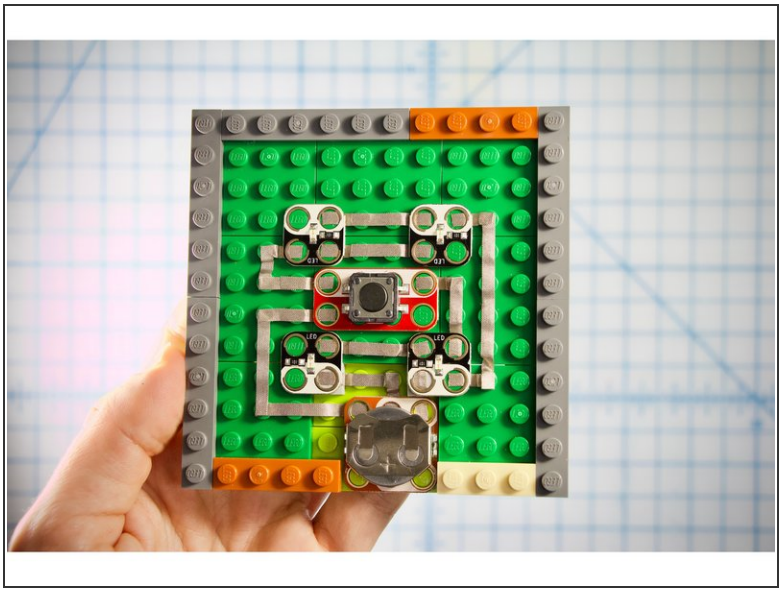
Step 2 — Add Maker Tape

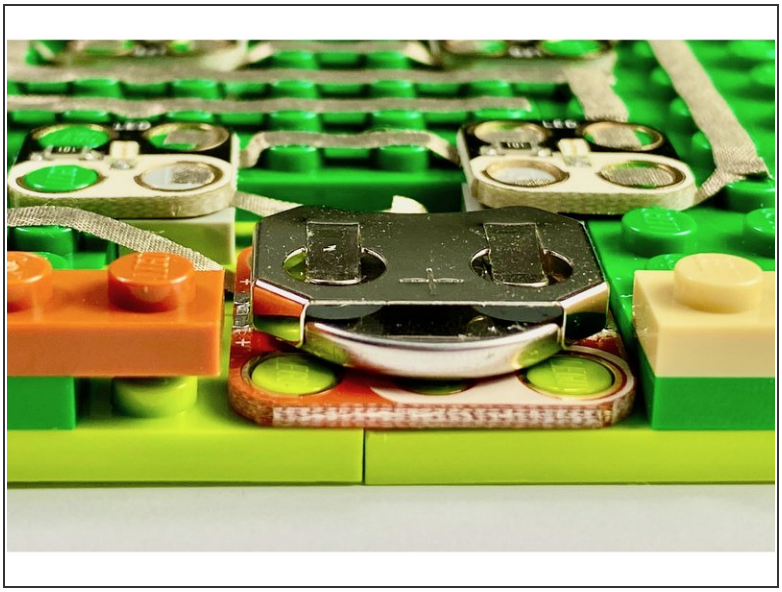


- Use the photo as a map and add the Maker Tape as shown. Look carefully - near the battery square,

there are a few places that the tape "jumps" up or down a level.

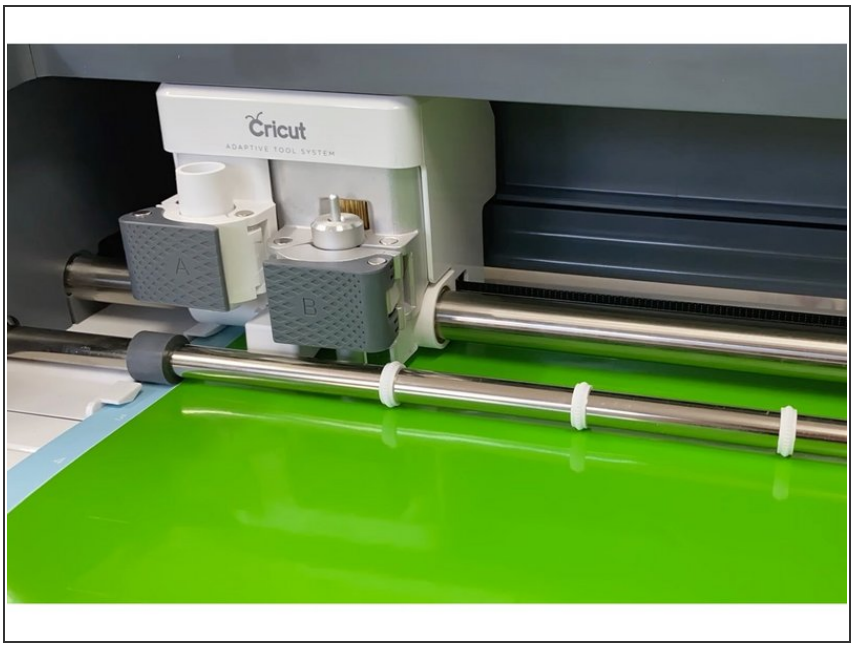
Step 3 — Add Crazy Circuits Components





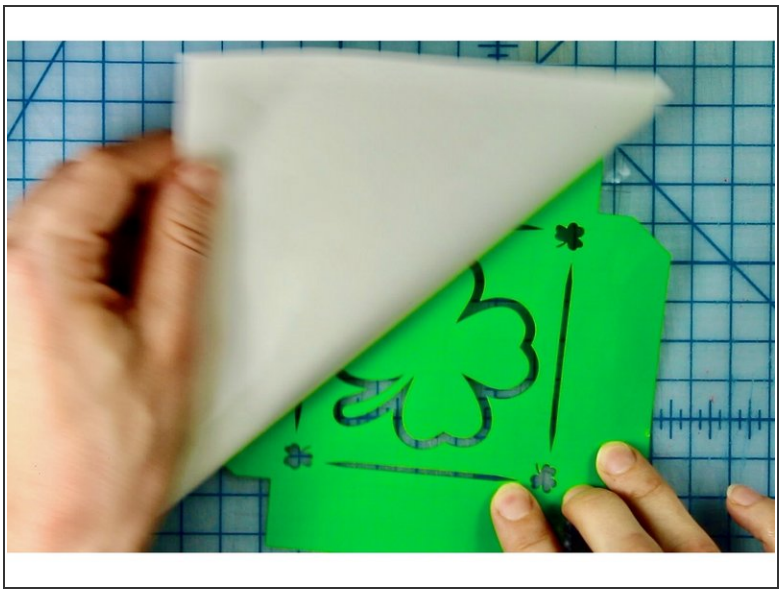
- Add the Crazy Circuits components as shown.
- Be sure that the negative side of the LED is facing up on the top two LEDs, and down on the bottom two LEDs.

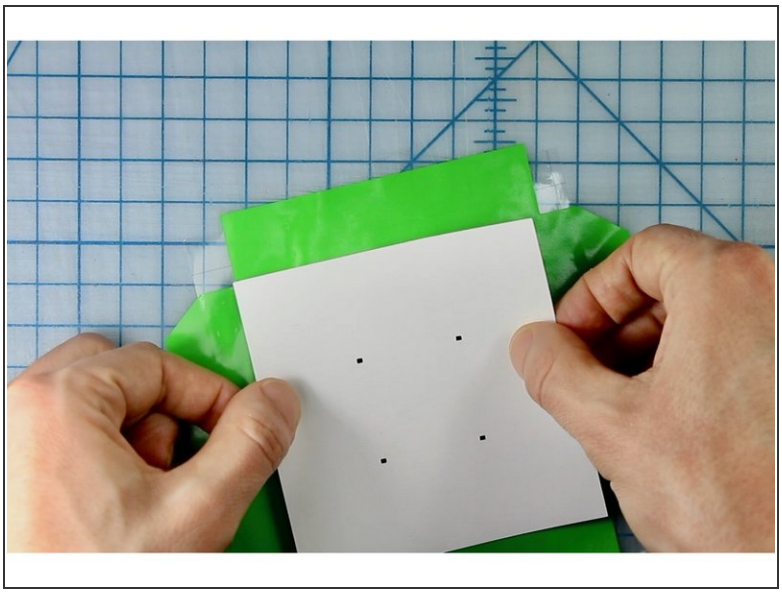
Step 4



- Download the cut files or Print files. Cut the shamrock file out of green adhesive vinyl. Cut the square file from white cardstock.
- If using the Print files, print on white paper. Use a craft knife to cut out the shape on the grey lines, and cut out the yellow rectangles.

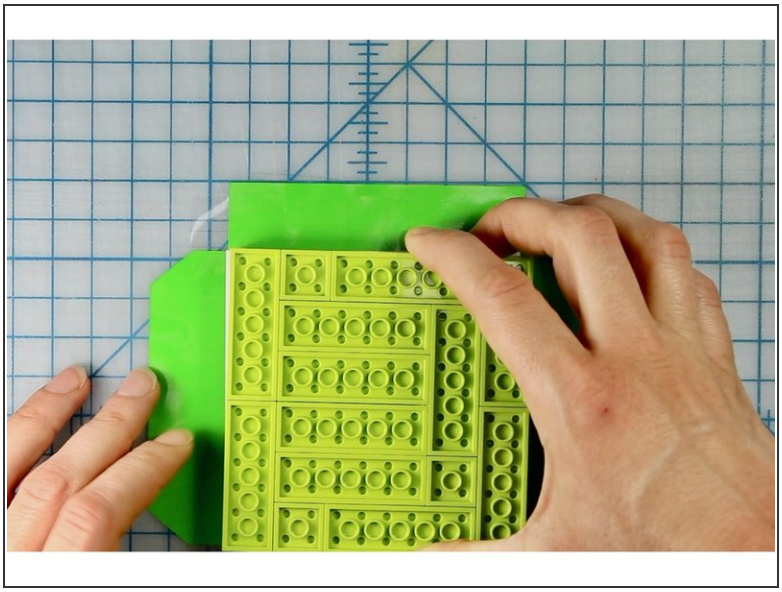
Step 5

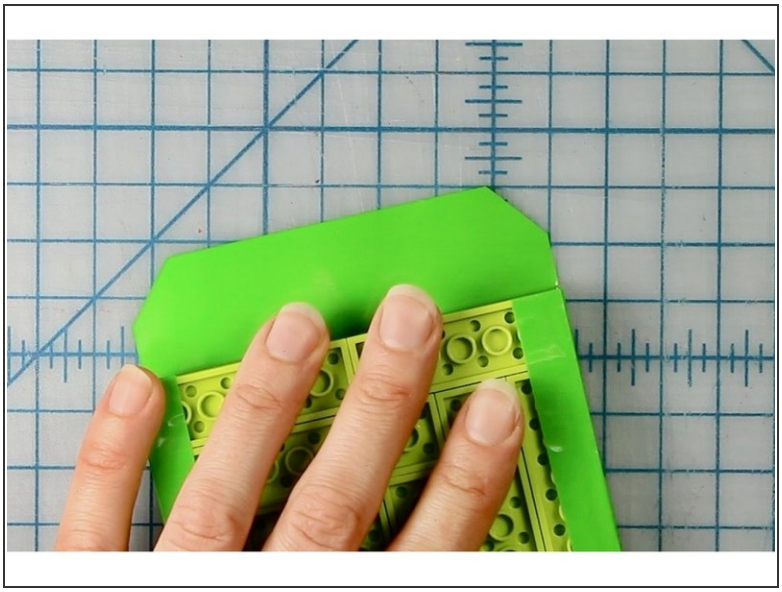




- If you used the print files, skip to the next step.
- Peel / weed away the negative space in the design. Use some contact paper on top of the design to keep the shamrock in the right place.
- Peel the backing off the vinyl. Place the piece of white card stock in the center of the square as shown, on the adhesive side.

Step 6





- Place the lego structure in the center of the square and wrap the square flaps first, then wrap the ones with the tapered edge.
  - If you used the printed design, wrap the structure in the paper, and use tape to adhere it underneath the coaster.

Step 7





- Turn the coaster over, grab a clear glass or mug, and illuminate it!

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