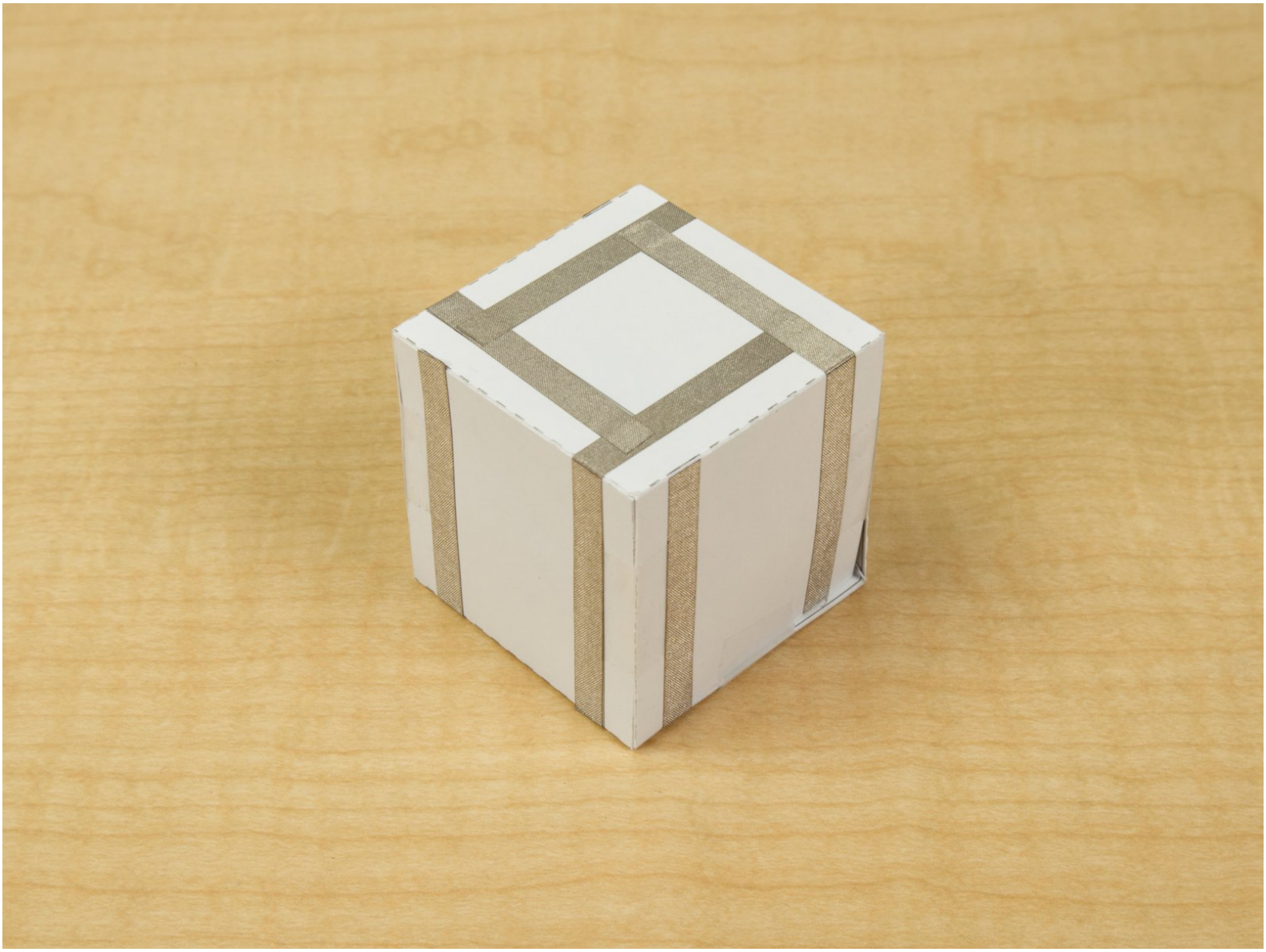
Paper Circuits Cubes - Power Splitter

Use these easy to make Paper Circuits Cubes to demonstrate the basics of circuitry. Learn about open and closed circuits, polarity, power and components.

Written By: Pete Prodoehl



INTRODUCTION

Use these easy to make Paper Circuits Cubes to demonstrate the basics of circuitry. Learn about open and closed circuits, polarity, power and components.

Besides our **Paper Circuits Kit** (which contains Maker Tape, batteries, and LEDs) you'll need a few magnets, washers, and tape.

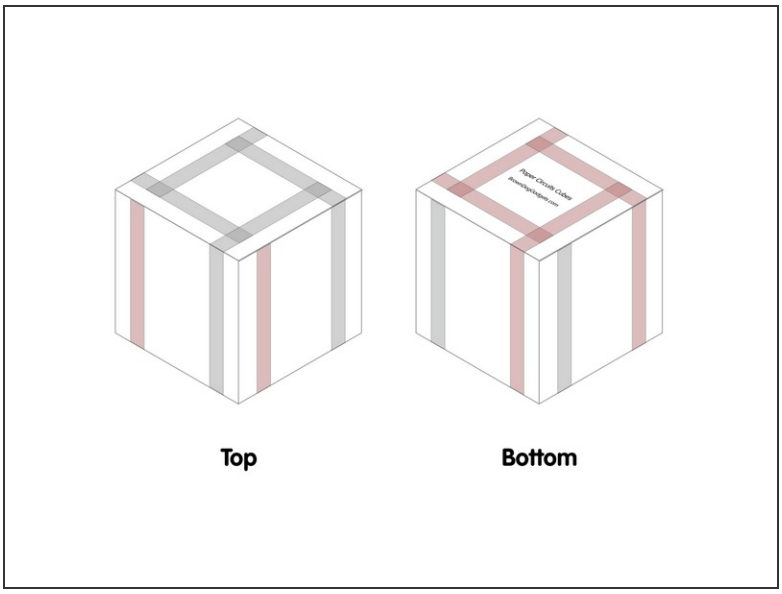
TOOLS:

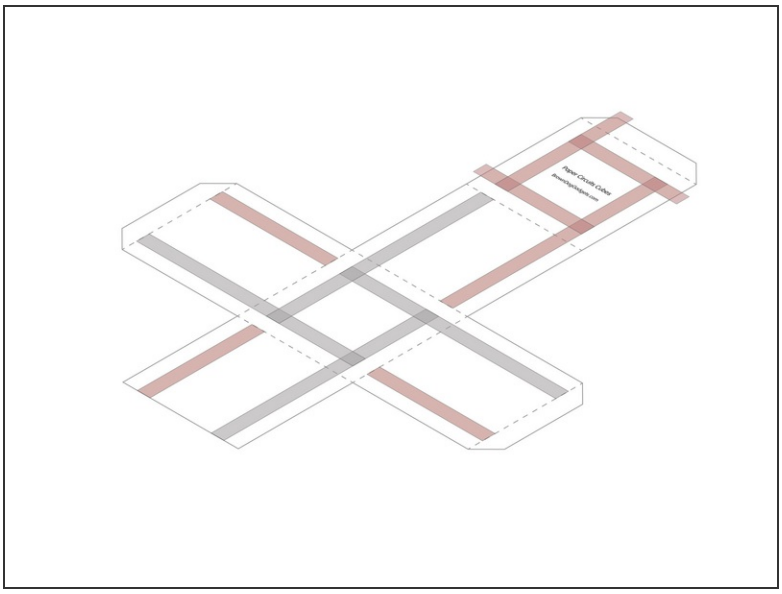
- Scissors (1)
- X-ACTO Knife (1)

PARTS:

- Paper Circuits Kit (1)
- Tape (1)
- Masking Tape (1)
- Ceramic Magnets (18mm) (1)
- Washers (1)

Step 1 — Build the Cube





⚠ If you haven't built any cubes yet make sure to check out the guide for Paper Circuits Cubes first.

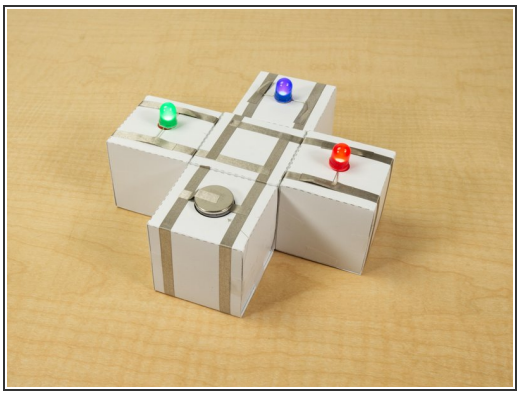
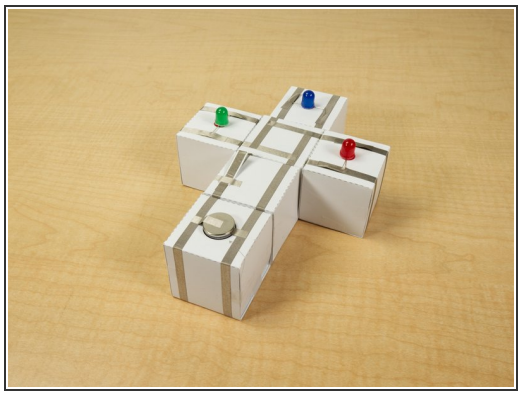
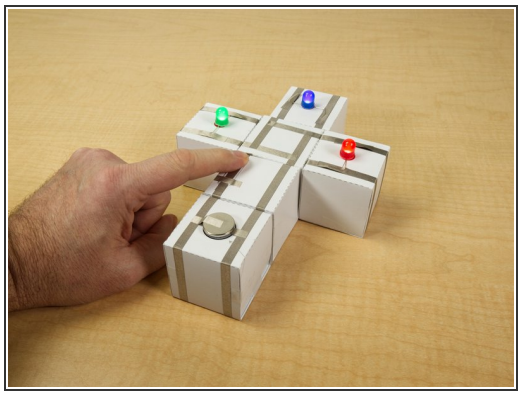
- Use this cube to split off power in three different directions if you want to get creative with your cube arrangements.

ⓘ Note: Since this cube connects on four sides you'll need to add twice as many magnets and washers as a standard cube uses.

- We've colored one of the circuit paths red and left the other one gray so you can easily see how they each connect. (One will be positive, the other negative.)

Reminder: Assemble the cube before you apply the Maker Tape as it needs to wrap around all sides of the completed cube.

Step 2 — Use the Cube

- With the Power Splitter Cube you can now branch your circuit off left or right instead of just going straight.
- Try adding a Switch Cube between your power and your LEDs.