



Minecraft-Inspired Paper Circuits (full series)

Make these Minecraft-Inspired projects using this guide and the templates found in the attached PDF file.

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INTRODUCTION

Make these Minecraft-Inspired projects using this guide and the templates found in the attached PDF file.

These projects can be created with our **Paper Circuits Kit** or **Origami Circuits Kit**.

Most require Maker Tape, a CR2032 Battery, and either a Jumbo 10mm LED **or** a Vibrating Motor.

You'll need to supply your own paper, scissors, and tape. (And colored pencils, crayons, or markers if you choose to use the black & white templates.)



TOOLS:

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



PARTS:

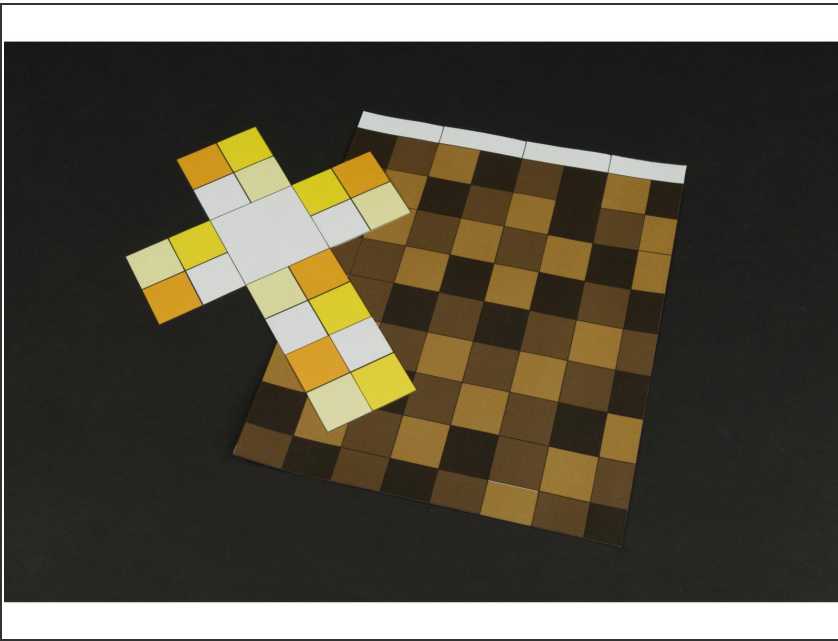
- [Paper Circuits Kit](#) (1)
- [Origami Circuits Kit](#) (1)
- [Tape](#) (1)

Step 1 — Print the Templates



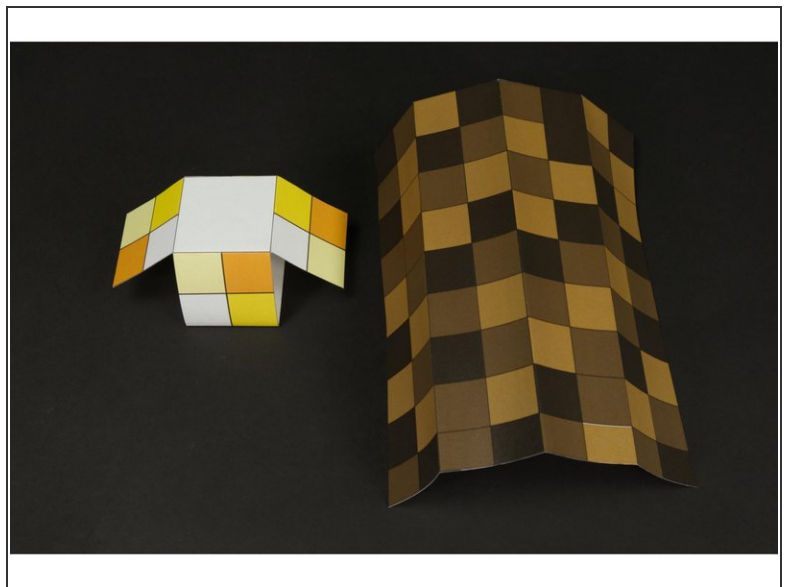
- There are seven different templates & projects in the attached PDF file. We'll walk through making the Light-Up LED Torch in this guide, but all of the project follow a similar building technique.
- Each project is meant to be printed double-sided so you can build the circuit on the inside and see the art on the outside.
 - Note that there are two pages that were intentionally left black to accommodate printing double-sided.
- You'll also find black & white versions that you can color yourself.

Step 2 — Cut the Templates



- After you print the templates you'll need to cut them.
- Always cut on the outside just in case your printer doesn't line things up perfectly.
- If the inside is not perfectly aligned, that's okay! Just use it as a rough guide.
- ❗ Tip: If you can't print double-sided easily just print out each page separately and use the diagram for reference when you build your circuit.

Step 3 — Fold the Templates



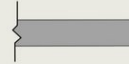
- Fold each piece as indicated using the lines on the outside as a guide.

Step 4 — Build the Circuit



The Tape Loop

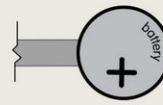
1 Attach negative side of tape



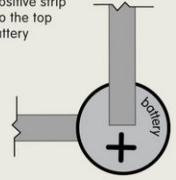
2 Attach a small loop of tape to the negative strip of tape



3 Stick negative side of battery down to the tape loop

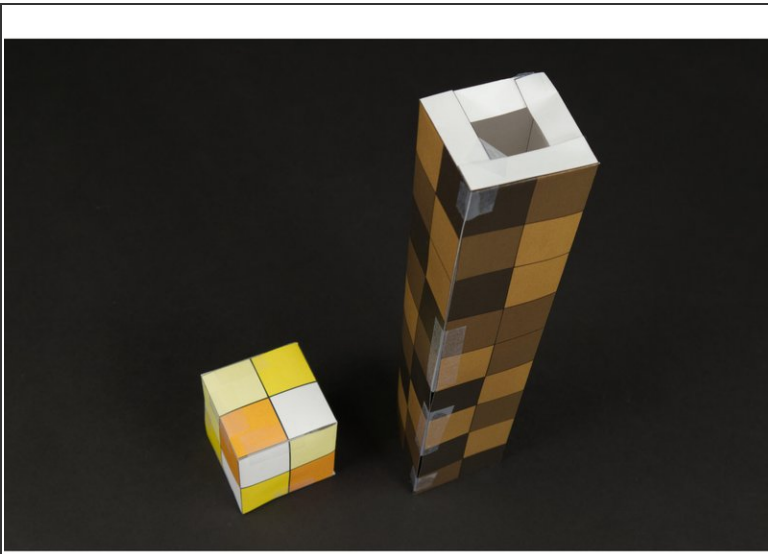


4 Attach positive strip of tape to the top of the battery



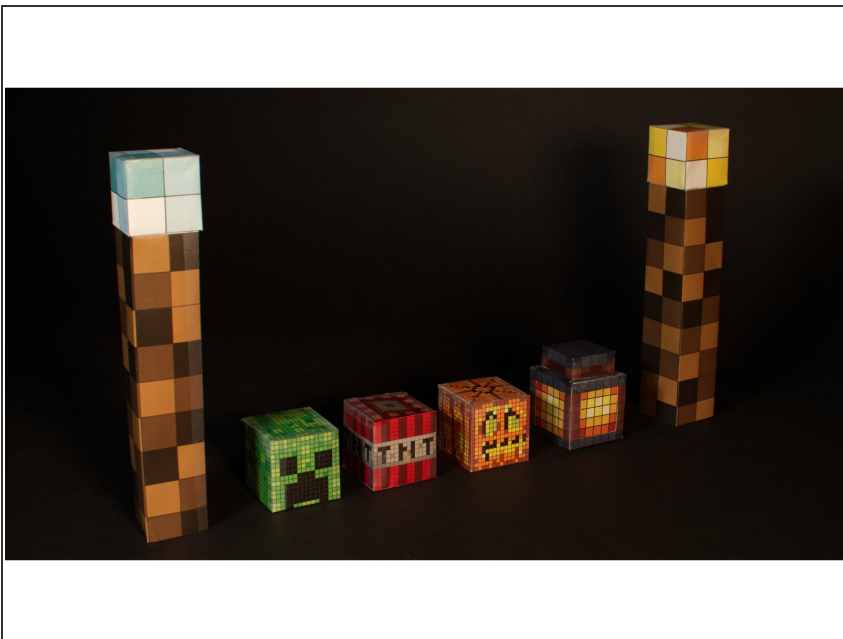
- Grab your CR2032 Battery, a White Jumbo 10mm LED, and some Maker Tape...
- Build your circuit as shown on template you printed out.
- ⓘ Note that we'll use a "Tape Loop" (a small loop of Maker Tape) beneath the battery to stick it down.
- ★ Maker Tape is conductive all the way through so it can secure our battery and allow current to flow. (Most copper tapes is not conductive on both sides so a tape loop will not work.)

Step 5 — Assemble the Pieces



- Once you've got your circuit working you can assemble each piece.
- Fold the edges together and use tape to attach them.
- Once you've got both pieces assembled you can stick them together!
- You've now got a Light-up MINECRAFT-Inspired Torch!

Step 6 — Make Another Project!



- The attached PDF has more projects you can try.
- The assembly techniques are all pretty similar, so just check the instructions for each project.
- A few of them use a vibrating motor instead of an LED and will move around instead of lighting up!