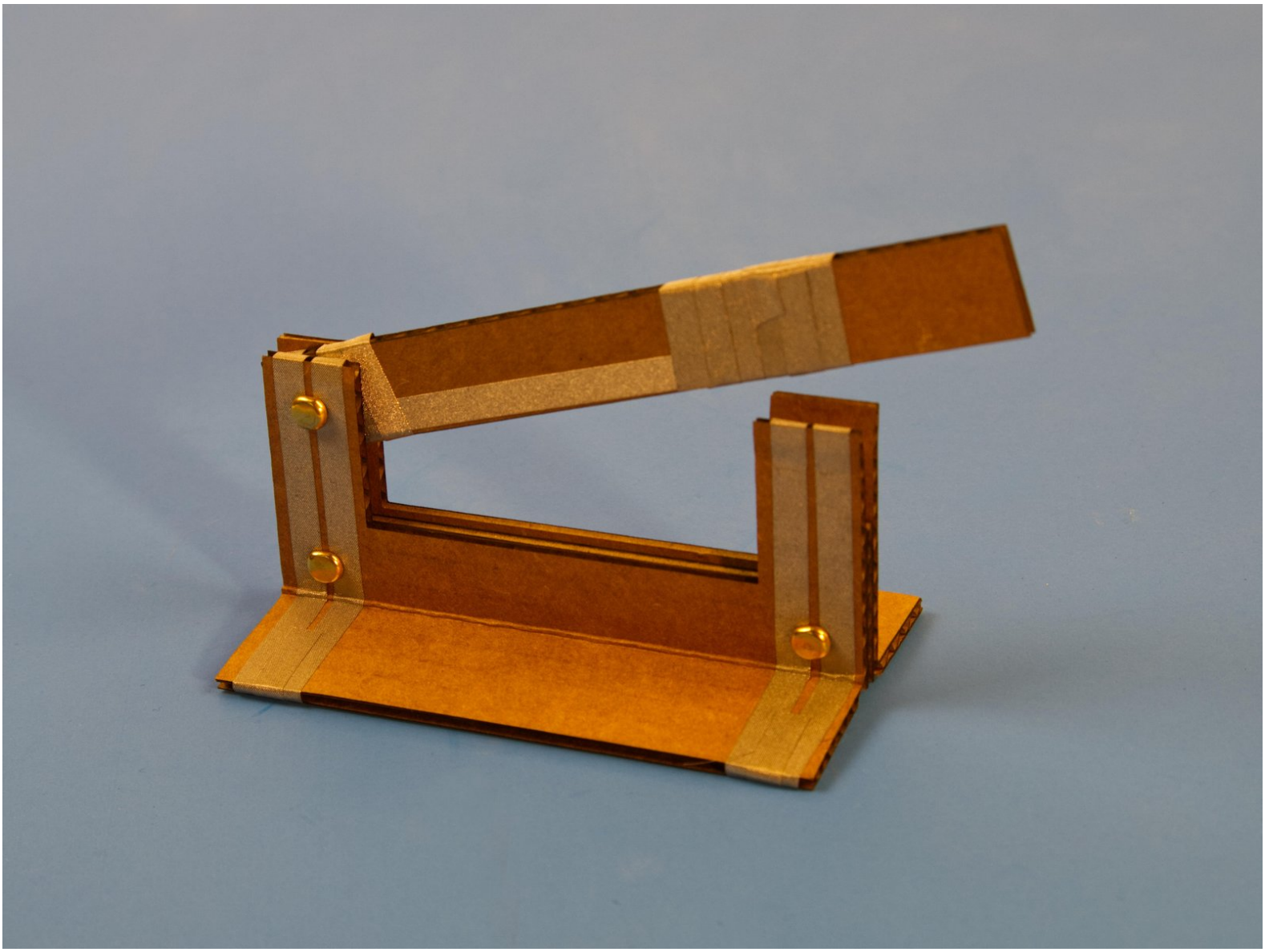
Switch - Cardboard Knife Switch

Create a knife switch with this template and conductive Maker Tape.

Written By: Pete Prodoehl



INTRODUCTION

Create a knife switch with this template and conductive Maker Tape. All you need is some cardboard, Maker Tape, a few brass fasteners, and an LED and CR2032 battery.

We also have a Giant Cardboard Knife Switch. Sometimes bigger is better!

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

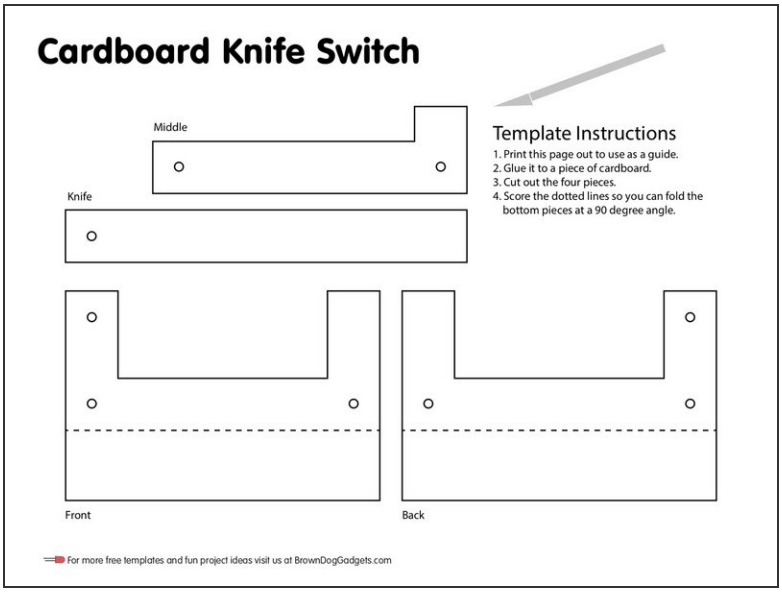
TOOLS:

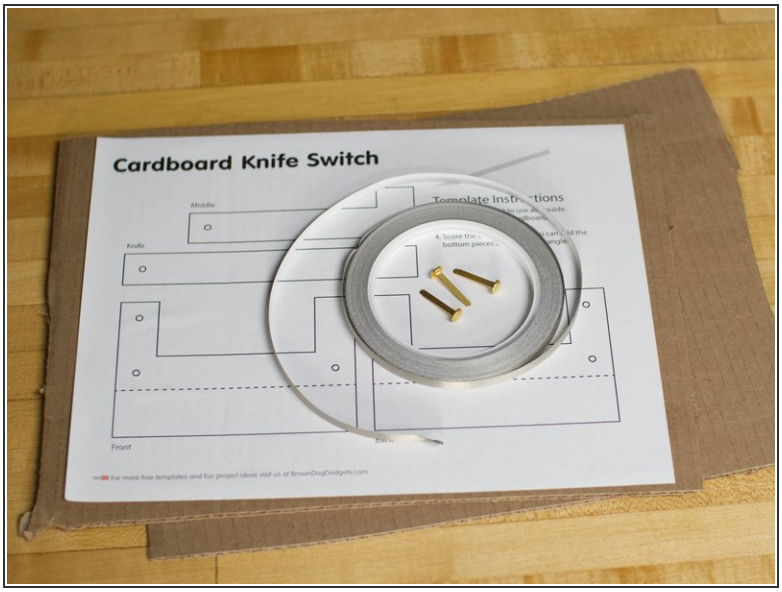
- Scissors (1)
- X-ACTO Knife (1)

PARTS:

- Cardboard (1)
- Maker Tape (1)
  1/4" Wide
- Brass Fasteners (3)

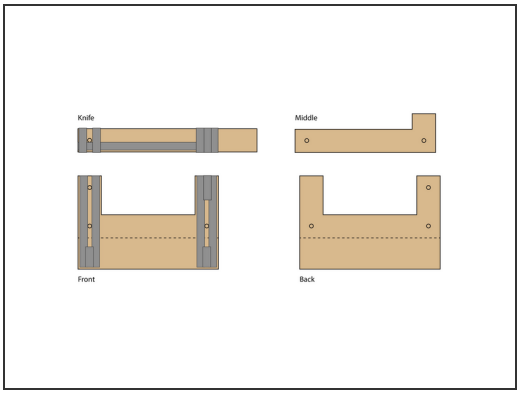
Step 1 — Print Out Template

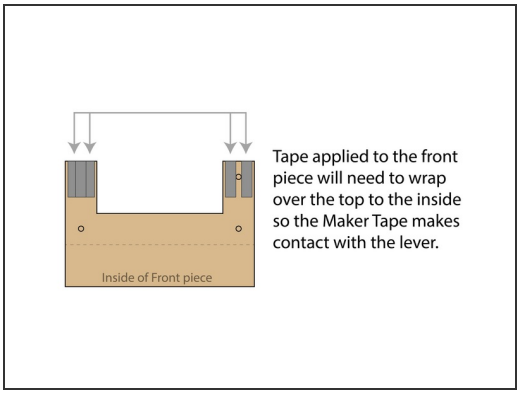


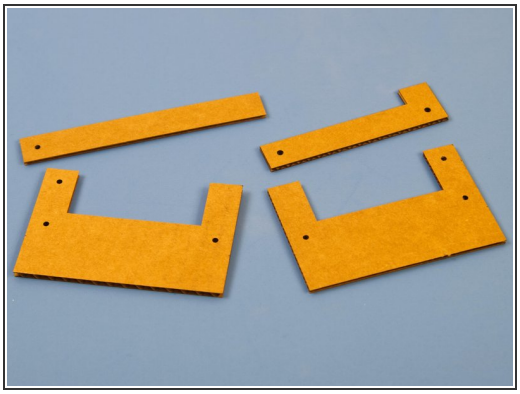


- Print the last page of the PDF document and glue the template to a piece of cardboard.

Step 2 — Attach Maker Tape

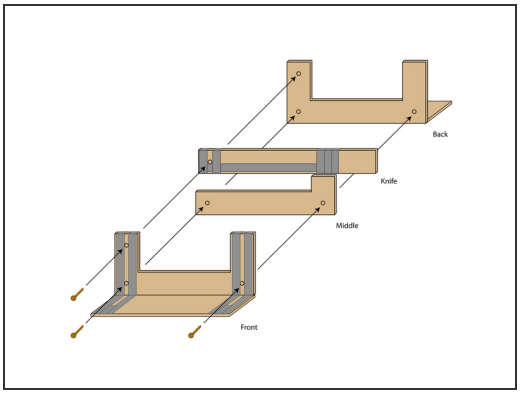


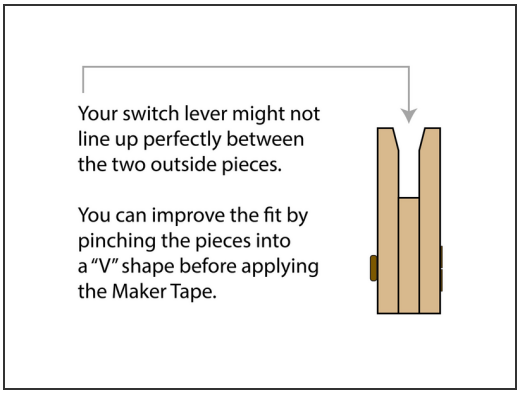


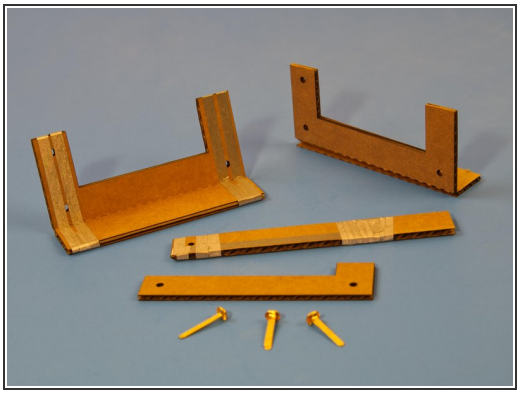


- Attach Maker Tape as shown.

Step 3 — Assemble Switch

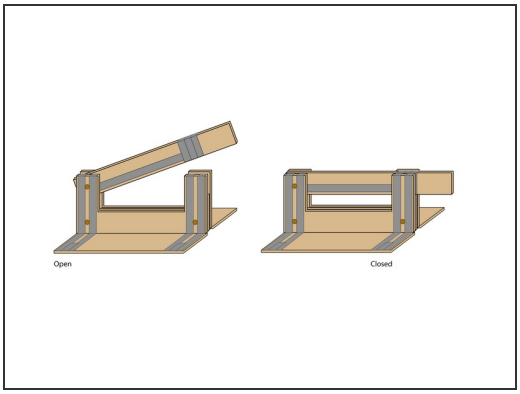


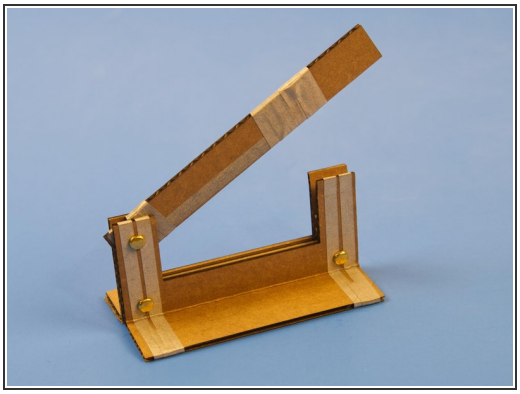


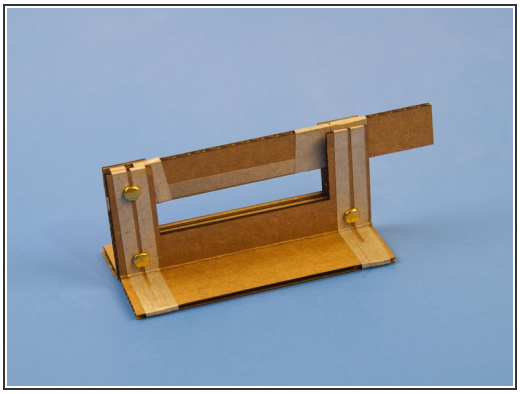


- Assemble switch as shown.
- Use three brass fasteners to hold the switch together.

Step 4 — Test the Switch

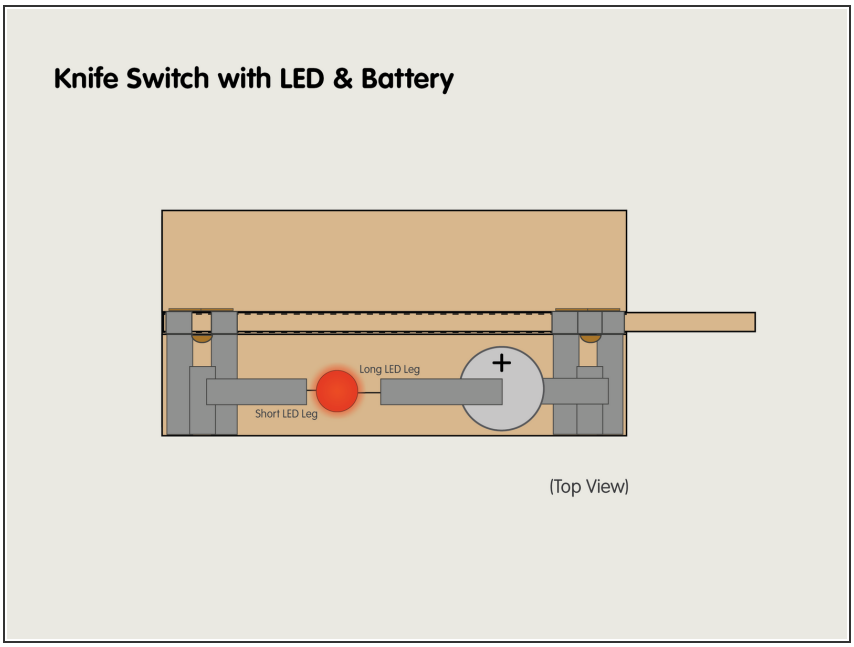






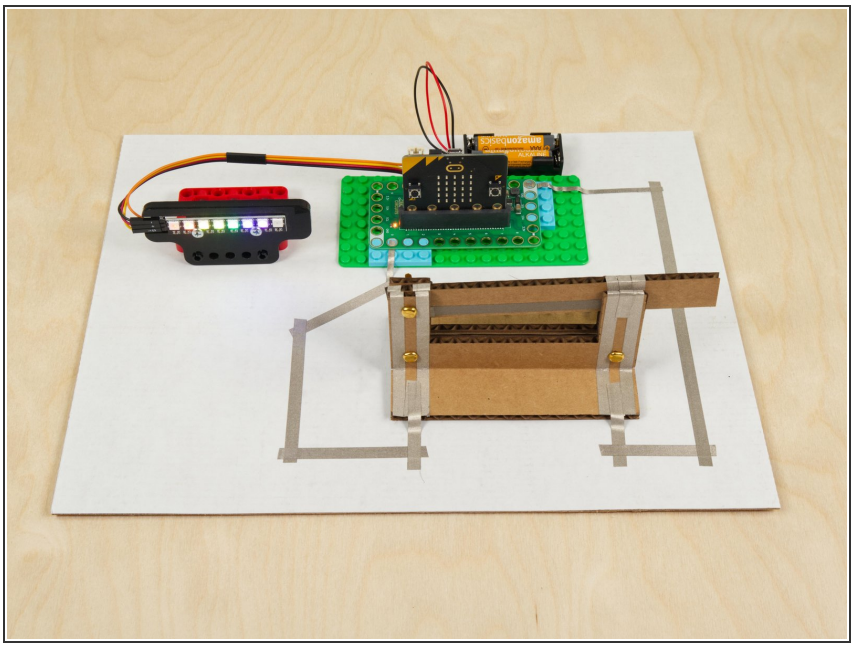
- Connect your circuit to the pieces of Maker Tape on the left and right side of the base.
- When you close the switch your circuit will be completed and will turn on!

Step 5 — Add an LED and Battery



- One quick and easy way to demonstrate the knife switch is to add an LED and and a CR2032 Battery.
- All you need is a little Maker Tape and you can add it right onto the base of the switch!

Step 6 — Connect with a micro:bit!



- Since the Cardboard Knife Switch is a functional switch we can use it anywhere we might use a switch, including in a micro:bit project! The Knife Switch with NeoPixels is a great example of this idea!
- For a more complex project using Cardboard Buttons check out our Game Show Buzzer System guide.
- What ideas can you come up with to connect a knife switch to a Crazy Circuits project?