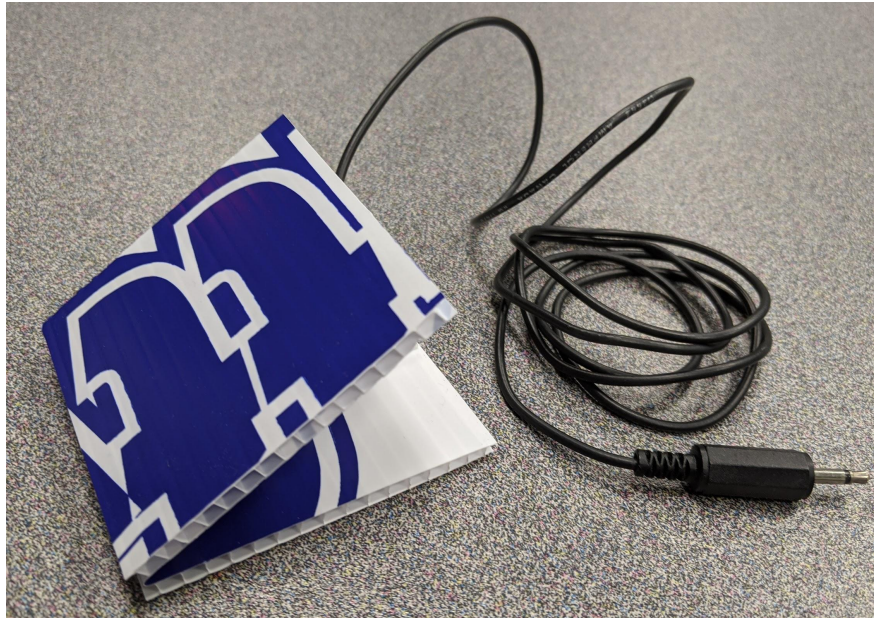


Corrugated Plastic Switch

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This inexpensive plastic switch made from simple materials works well for students who need a large surface to target for playing games and completing school switch activities.

Materials

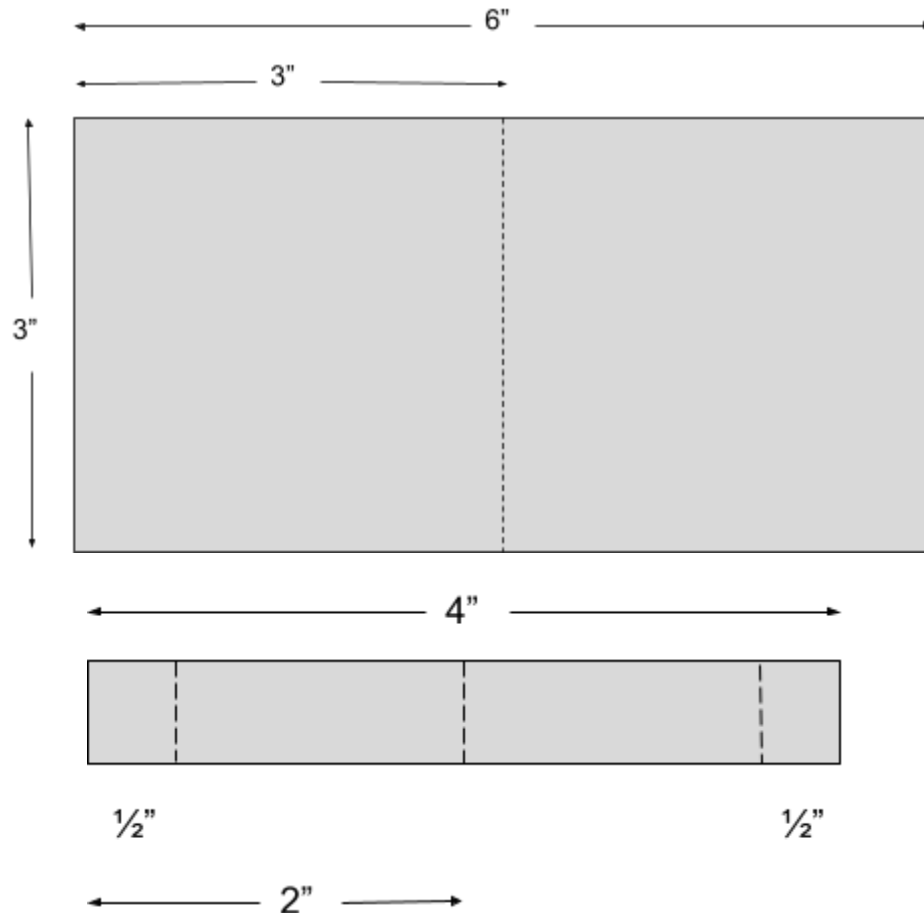
- Corrugated Plastic
- Double-sided mounting tape
- Mono Jack with cable
- Copper tape
- Rug tape
- Electrical Tape

Tools

- Wire strippers
- Scissors
- Wire cutters
- Utility knife
- Straight edge

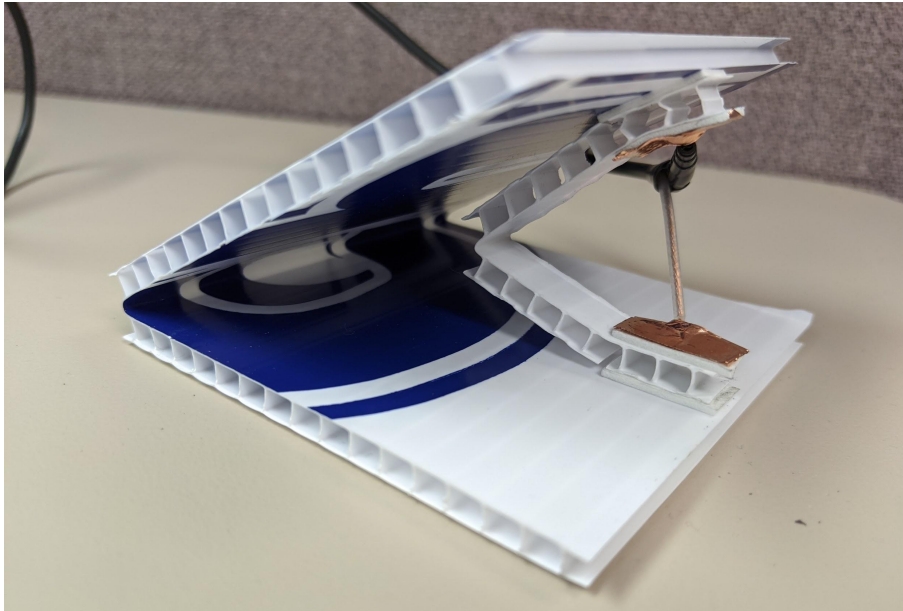
How to Make it

1. Cut from corrugated plastic (the corrugated channels inside the plastic should run the short direction):
 - a. One 3" x 6" rectangle
 - b. One 1/2" x 4" rectangle
2. Score only one side of the rectangles as shown by the dotted lines below:



3. Remove 3 inches of outer insulation on wire exposing two separate wires. Remove 1/4 inch of insulation from each wire.
4. Fold a 1-inch strip of copper tape, with backing removed, in half with adhesive sides together.
5. Layer together on both inside sections of the small plastic strip in this order:
 - a. Corrugated plastic
 - b. Double-sided mounting tape
 - c. Bare wire
 - d. Copper tape
6. Use another piece of mounting tape to connect the small plastic strip to the large plastic rectangle.

7. Use electrical tape to secure the cable inside the switch so it doesn't get pulled out of the copper tape.
8. Add rug tape to the bottom of the plastic switch to keep it in place during use.
9. Add high contrast or motivating stickers to the top of the plastic switch to encourage use by students.



Resources:

Here are some links to find the materials for this project.

- Mono Jack with cable <https://www.digikey.ca/short/pt54w9>
- Double-sided mounting tape
<https://www.lowes.com/pd/Scotch-0-5-in-x-6-25-Two-Sided-Tape/3715096>
- Copper tape <https://www.adafruit.com/product/1127>
- Rug tape
<https://www.homedepot.com/p/Roberts-2-1-2-in-x-25-ft-Roll-of-Rug-Gripper-Anti-Slip-Tape-for-Small-Indoor-Rugs-50-580/204083554>
- Electrical Tape
<https://www.homedepot.com/p/3M-Scotch-Super-33-3-4-in-x-66-ft-x-0-007-in-Vinyl-Electrical-Tape-Black-6132-BA-10/304653556>