Paper Circuit Cards

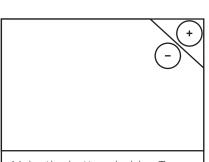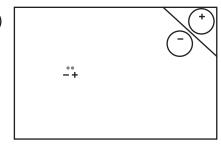**By Jordanne Chan**
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1 Make the battery holder. Trace the battery twice in the corner and mark the inner circle as (-) and outer circle as (+). Fold the corner inwards on the marked line.
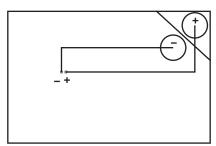
2 Design the front of the card. Think about where you want to place the LED, and indicate with two dots for each LED leg. Use a needle to poke two holes.
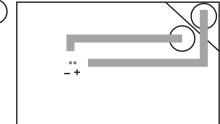
3 Open the card up and label positive and negative ends for the LED.
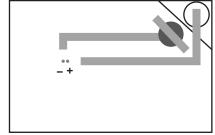
4 Mark a path from the centre of the positive end of the battery to the positive hole for the LED. Make a corresponding path for the negative side of the battery to the negative hole for the LED.
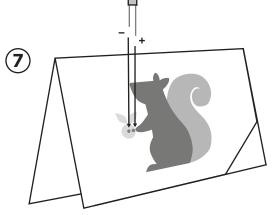
5 Trace the path with copper tape. Make sure to start taping from the centre of the battery circles. Do not cover the holes for the LEDs.
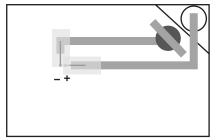
6 Place the battery negative side down on the negative circle. Attach with a piece of copper tape. Make sure the tape does not overlap with other parts of the circuit.
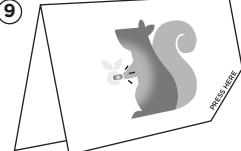
7 Stick the LED legs through the front of the card.

8 Open up the card and flatten the LED legs so they touch the ends of the circuit. Secure with some clear tape. It's very important that the LED legs have a good connection to the copper tape.

9 Finally, test your card! Fold the corner back inside. Close your card and press down on the corner. Ta-da! Unfold the corner when you are not using your card.

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