

PEBBLES

and the Butterfly Circuit Project

Bring Pebbles alive as you explore circuits in this fun, interactive project! You will use electricity and a parallel circuit to make Pebbles' eyes light up in a fun, homemade card format. This activity is a great way to celebrate Pebbles finding the biggest number and a unique way to send a hello to a loved one!



MATERIALS:

- Printout of the Pebbles Circuit Card Template, preferably on cardstock
- Pen/Pencil
- Coloring utensils
- Glue stick
- Tape
- [Double-Sided Conductive Copper Tape](#)
- 1 - [CR2032 battery](#)
- 2 - [5mm LED Diode lights](#)

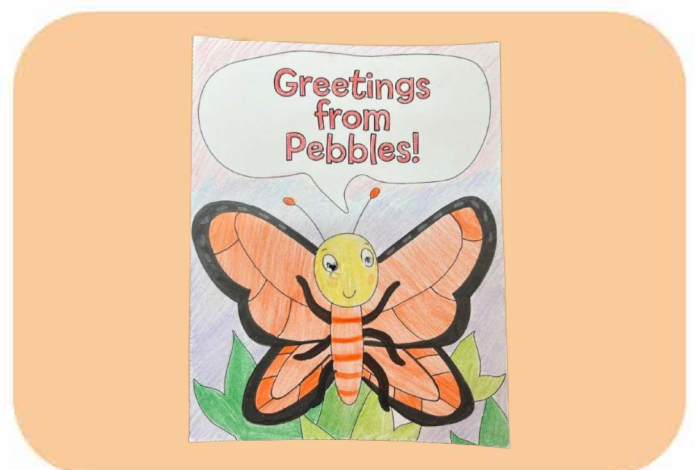
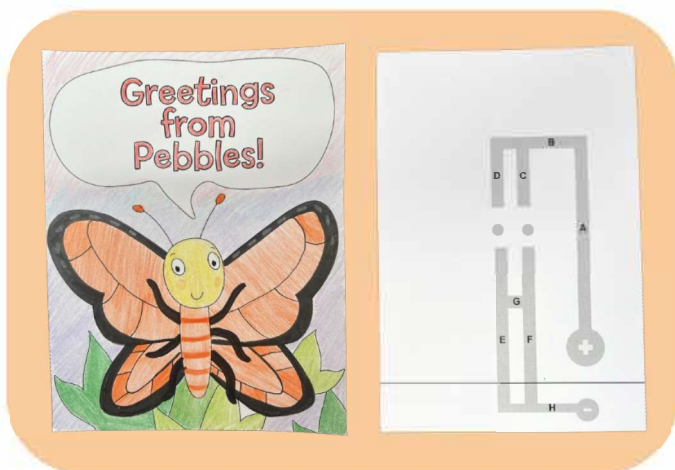
It is recommended that this activity is completed with the help and guidance of an adult.

STEP 1:

Cut out your card by cutting along the dashed lines. Then, color the Greetings from Pebbles rectangle. This will be the top of your card.

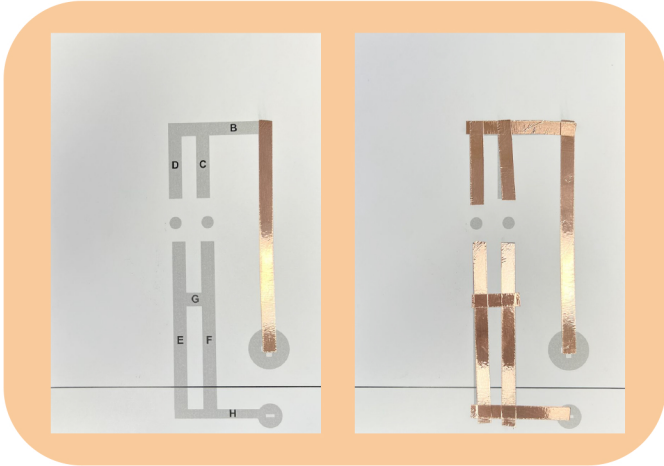
STEP 2:

Use a pen or pencil to poke two holes where Pebbles' eyes are. They should be large enough for the LED lights to fit through.



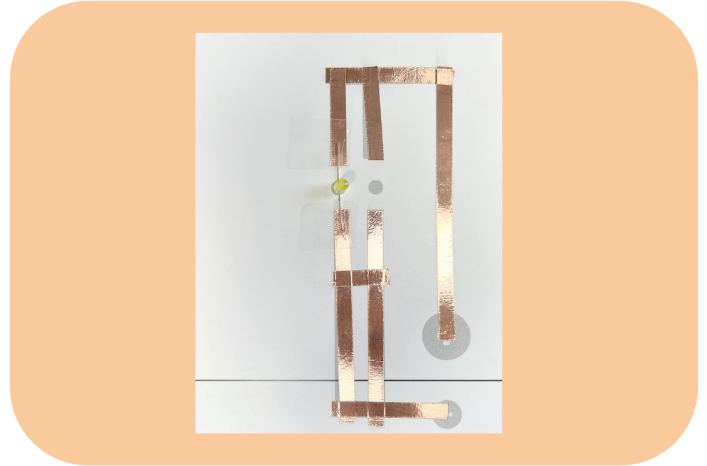
STEP 3:

Place a piece of copper tape on the vertical gray circuit line labeled "A." Repeat this process, covering all the gray circuit lines with copper tape in alphabetical order.



STEP 4:

Take one of your LED lights. Notice how one prong is longer than the other. Carefully pull these two prongs apart. Place the LED Light in the center of Pebbles left eye so the prongs run vertical along the copper tape. The longer of the two prongs should be on top. Secure both prongs with tape.



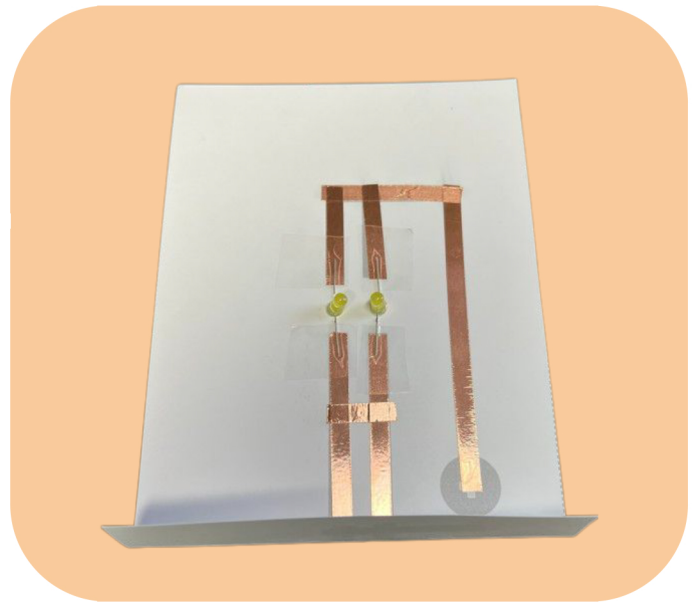
STEP 5:

Repeat step 4 to create the right eye.



STEP 6:

Fold the bottom flap of the paper forward on the solid black line.



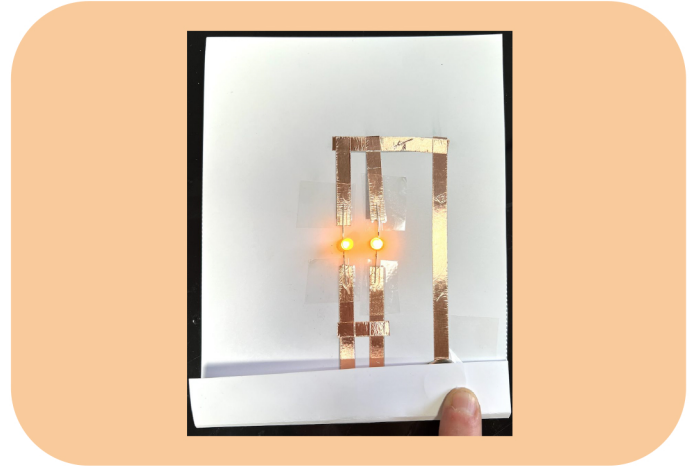
STEP 7:

Place your battery, plus side down, in the center of the gray circle. Secure the far right side of battery with a small piece of tape. Be sure the copper tape on the bottom flap comes in direct contact with the battery when folded over.



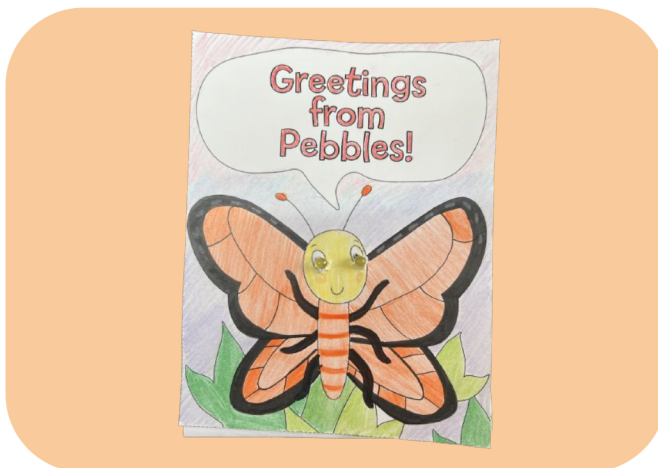
STEP 8:

Fold the flap over and press down on the battery to test the circuit. If your LEDs do not light up, be sure your copper tape is secure and overlaps at each intersection. Also, check that your LED prongs and battery are in direct contact with the copper tape.



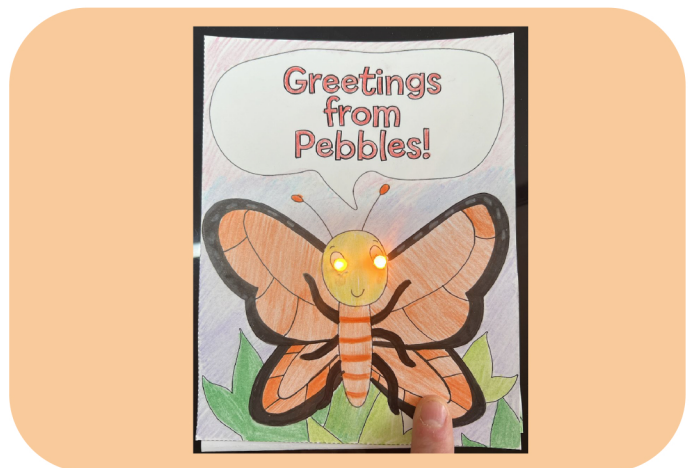
STEP 9:

Fold the flap over and glue the cover of your card on top of the circuit outline rectangle. Do not place glue on the copper tape.



STEP 10:

Trim any part of your card that does not line up and test your card!



Greetings
from
Pebbles!

