

WHAT ARE WE LEARNING?

- The Pop-Up Bank Card Machine uses a completed circuit to light up the LED. When the conductive tape on the bank card touches the conductive tape on the machine, it closes the circuit, allowing a continuous loop for electricity to flow, causing the LED to shine!

HOW CAN WE USE IT?

- Use your Pop-Up Bank Card Machine as you guide children to make purchases with their Pop-Up Bank Card in the Pop-Up Venture™ experience. If your camp program does not have the Pop-Up Venture experience or you are not assigned to this activity, you can encourage children to pretend to purchase their inventor supplies (upcycled items) and general materials for other components of camp by using the Pop-Up Bank Card Machine.



INDUCTEE CONNECTION: HINDA MILLER

Developing your own business requires many skills that encompass innovation, economics and marketing principles. Many inventors are considered entrepreneurs – individuals who start their own business. This helps them create a new product, push it into the market and share it with the world. National Inventors Hall of Fame Inductee Hinda Miller, co-inventor of the women's sports top, used her business and entrepreneurship skills while launching a multi-billion-dollar industry. Along with collaborating on marketing strategies with co-Inductee and company co-founder Lisa Lindahl, she also helped with product design and manufacturing processes. Successful business owners like the co-inventors of the sports top practice empathy, self-awareness and responsible decision-making as they develop products that meet peoples' needs and improve their lives.

There are skills you can practice each day to help you succeed, including curiosity, creativity, determination and leadership, all of which you'll find at Camp Invention!



LEADER-IN-TRAINING ACTIVITY GUIDE



DISCOVER THE EXCITEMENT OF CAMP INVENTION
AND FIND INSPIRATION FROM A HALL OF FAMER!



ASSEMBLY OF A POP-UP BANK CARD MACHINE

You're invited to complete a fun hands-on activity like the ones you'll experience at Camp Invention®. Follow the steps illustrated below to build this DIY Bank Card Machine. Once finished, demonstrate to your friends and family how both low-tech and high-tech materials can be combined to create exciting inventions that light up inspiration. The sky's the limit when you are a maker and innovator!



LOCATE THESE MATERIALS:

- Coin battery
- Conductive tape
- LED
- Pop-Up Bank Card
- Scissors
- Souffle cups
- Tape
- White box



Select the box that looks like this.



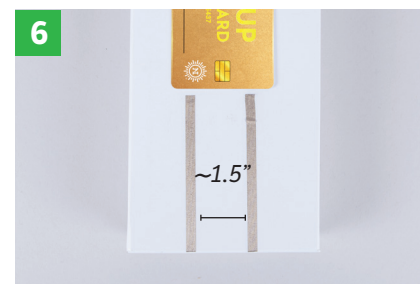
Flip over the box.



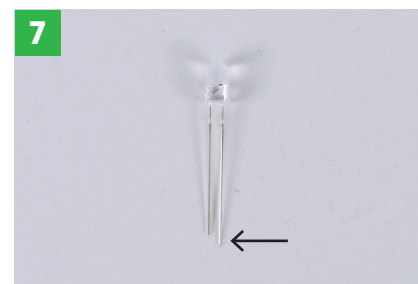
Cut the conductive tape into two 3-inch pieces.



Peel the conductive tape from the adhesive backing.



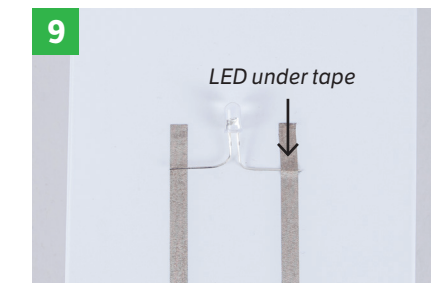
Attach the conductive tape to the box as shown. Use the Pop-Up Bank Card for reference.



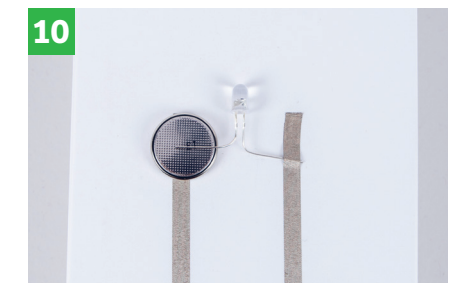
Hold the LED so the longer lead is on the right.



Bend the leads on the LED as shown.



Lift the right side of the conductive tape and insert the longer lead of the LED under the tape.



Place a coin battery, with the negative side up, on top of the tape.



Place the other lead of the LED on top of the coin battery. Tape into place.



Tape four souffle cups upside down inside the box to help stabilize the box.



Close both ends of the box.



Secure with tape.



Use a Pop-Up Bank Card to test! Adhere one 2-inch piece of the conductive tape in the designated space on the back of the Pop-Up Bank Card.



Tap the card on top of the conductive tape on the box. Apply pressure to get the LED to light up!

HELPFUL HINTS

- Be sure to test your Pop-Up Bank Card Machine! You can do so by applying slight pressure when touching the Pop-Up Bank Card to the machine, so the LED is illuminated. You may help guide the students as they do this during camp.
- If the LED does not light up, check that the coin battery has the negative side up and the shorter leg of the LED is connected to the coin battery.
- If the LED lights up only occasionally, check that the LED is secure to the coin battery. Secure with more tape as needed.