

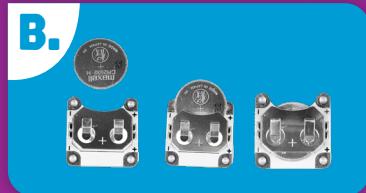
IT'S TIME FOR AN INVENTION CELEBRATION!

You're invited to experience a piece of our 2023 Wonder program in the provided activity. Follow the steps as campers discover the science of circuitry, then prototype a party hat! You'll notice hands-on steps are easy to follow, leading to a functional circuit. The colorful LED begins to flash, providing reassurance that the goal was accomplished, building confidence in students.

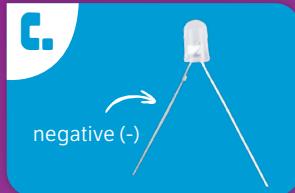
1. CREATE: Follow the steps below to create your very own circuit!



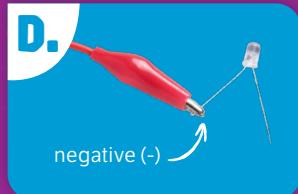
Find the positive (+) side of the coin battery.



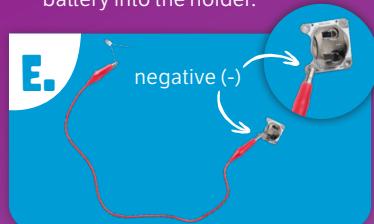
With the positive (+) side up, insert the battery into the holder.



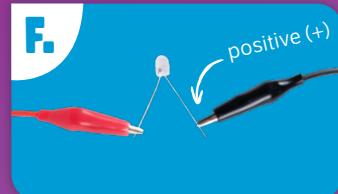
Find the shorter leg of the LED, which is the negative (-) leg.



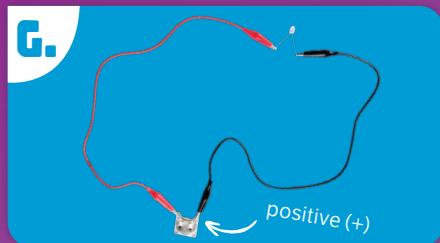
Attach an alligator clip to the short, negative (-) leg of the LED.



Clip the other end of the same wire to the negative (-) hole on the battery holder.



Clip another alligator clip to the long, positive (+) leg of the LED.



Clip the other end of the same wire to the positive (+) hole on the other side of the battery holder.



Congratulations! You've unlocked your LED ball! Check out the inner parts that make the LED ball's circuit!

2. EXPERIMENT:

Pull the tab out of the LED ball to turn on the light. Be sure to save the tab! When desired, insert the tab back into the slot to turn off the light.

3. PLAY THE "PARTY LIGHT" TRACK:

Scan the QR code below.

4. INVENT A LIGHT-UP PARTY HAT!

A. SKETCH Draw ideas for your party hat, including giving it a purpose. Will your hat make you invisible? Will it allow you to breathe underwater? Get creative! Continue to design considering the decorative materials provided.

B. BUILD Bring your sketch to life by customizing your party hat. When you are ready to use your LED, pull both paper sides off the adhesive square, sticking one side to the party hat and the LED ball to the other.

EDUCATOR TIP! After students experiment with circuitry, that same science is applied to the inner mechanics of the LED ball used for their party hat. The small tab they remove allows a tiny circuit inside to be completed, illuminating the ball. Once the tab is put back, the circuit is interrupted, shutting off the light.

EDUCATOR TIP!

In this activity, students are led through the process of brainstorming, sketching and prototyping. After learning the science of circuitry, they're encouraged through the creative process of design thinking and innovation.

Camp Invention curriculum is designed for students and educators. It provides easy-to-navigate components that encourage kids to use creative problem solving, design thinking and collaboration all while developing their aptitude for STEM.



SCAN THE QR CODE TO READ A CAMP INVENTION CURRICULUM EXCERPT