

LED Jewelry

How to Build It:

Materials:

- LED
- Button battery
- Binder clip
- Electrical tape
- Things to decorate your jewelry like pipe cleaners, beads, egg cartons, buttons, foamies, rubber bands, and anything else you can find!

Procedure:

1. Light up the LED by touching together the positive side of the LED and battery.
2. Wrap a small piece of electrical tape around the battery and light to keep it from short circuiting and turning off.
3. Use the binder clip to hold together the LED and battery.
4. Decorate using what you find to create rings, bracelets, and other jewelry!



How it Works:

LEDs need around 3 volts of electricity to turn on, and while button cell batteries don't look like the average battery, they supply that 3V that LEDs need! They are also conveniently small that we can use them to power some high-tech, flashy jewelry. Different colors of light are different frequencies that require slightly different amounts of energy to power up. Try testing out different colors of LEDs at the same time to get a feel for how this works. You might be able to tell which colors of lights need more or less energy.

Experiment!

How could you make a switch to turn off the jewelry when you're not wearing it?

Can you use more than one LED?

Can you use two different colors of LEDs at the same time?

Can you make a piece of jewelry that you could convert from a ring to a necklace or bracelet?