Simple Flashlights

What You’ll Need:
- Popsicle Stick
- Binder Clip
- Battery
- LED (Light Emitting Diode)
- Copper Foil

Get Started:

1. Get to know your LED
   - Place copper foil tape on both sides of the popsicle stick (as shown below)
   - Leave the tape open at the top to insert the LED

2. Slip LED around the popsicle stick. Place LED under copper foil, keep in mind lengths of LED legs

3. Secure the battery onto copper foil with binder clip. Make sure positive side of the battery is touching the copper foil that is holding down the positive side of the LED

4. Put binder clip on the end of popsicle stick
   - Ensure that binder clip is touching the battery and not the copper foil on either side of the popsicle stick

5. Test It!!
   - Make sure copper tape is secured over the LED

On the bottom:
- Ensure that the copper foil is long enough to contact the battery, but doesn’t touch the binder clip... this will cause a short.