

## **4. BLINKING SLIDE SWITCH**

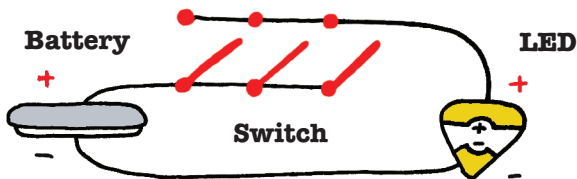




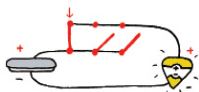
## 4. BLINKING SLIDE SWITCH

You can craft all sorts of switches that open and close gaps in the circuit, or even combine them to create more complex switches.

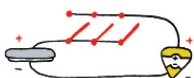
In the blinking slide switch, there is one long gap and multiple places you can press to close the circuit. This is an implementation of the “OR” switch logic introduced on page 55.



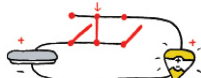
Here, as you press down and slide your finger along the switch, the gap opens and closes, causing the light to blink on and off!



**LED ON**



**LED OFF**



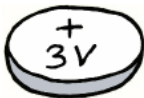
**LED ON**

## You will need:



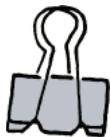
x 1

LED circuit sticker



x 1

3V coin cell battery



x 1

binder clip



conductive foil tape



scissors

## Directions:

1. Turn to the template page and stick foil tape over the gray lines.



2. Stick the LED sticker onto the foil, on the footprint



3. Create your battery holder and clip your battery in place (see previous activities for details).



4. Cut along the bold red line

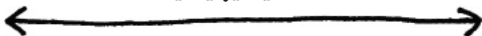


5. Fold up along the horizontal dotted line to make your blinking switch. Press and slide your finger across this switch, and the light will blink on and off!

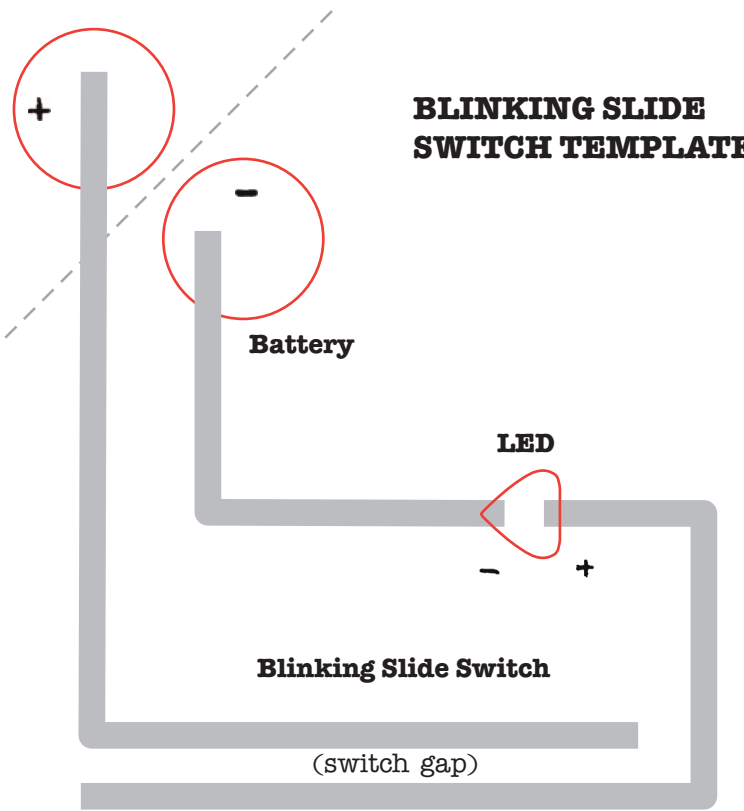


6. Change the blinking pattern by moving or adding switch contact pieces!

press and slide here



# BLINKING SLIDE SWITCH TEMPLATE



fold here



(switch contacts)



cut here



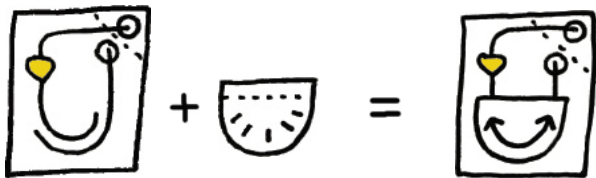


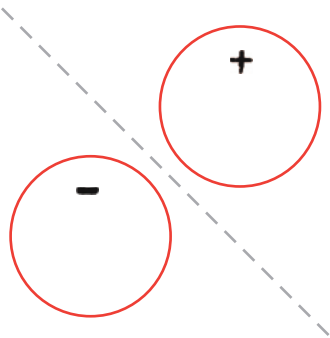


What happens when the penguin slides  
across the page? Draw it here!

## YOUR TURN!

You can make a blinking slide switch in any shape — not just a straight track. Just make the gap in your switch a different shape and glue a corresponding flap for the switch contacts. Try making a curved, or even circular path!







## TRY THIS!

You can make all sorts of effects by crafting new kinds of connections and arranging your lights.

### Animate with lights



Try connecting different LED branches along a single slide switch.

When you press your finger along this path, the LEDs will turn on in order, creating an animation!



