Basic LED Circuit with Button Switch
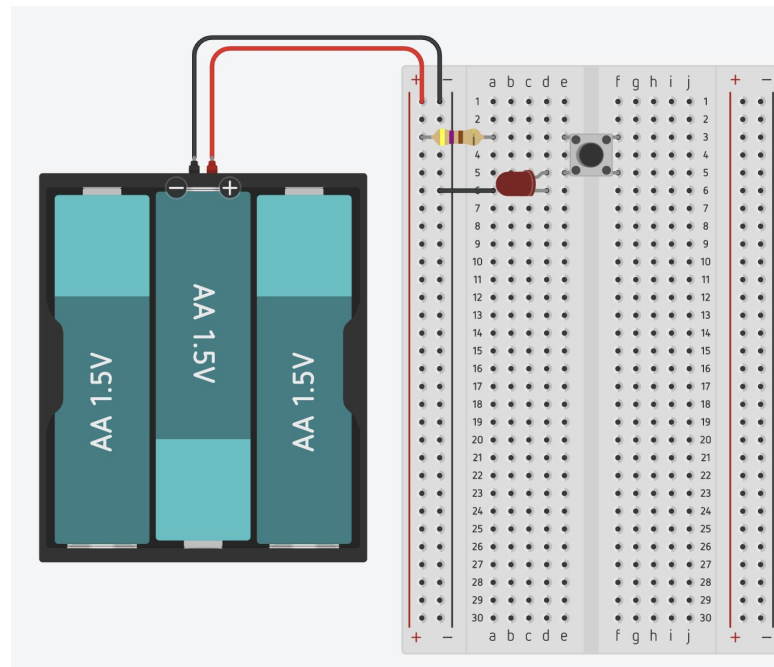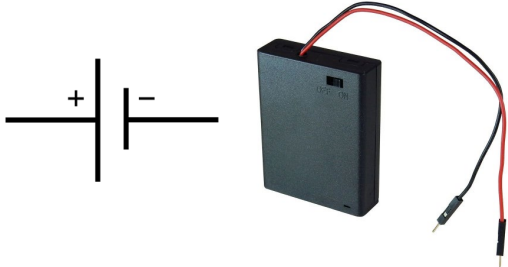
We will be building the Basic LED Circuit with a Switch. Here are the components you will need.
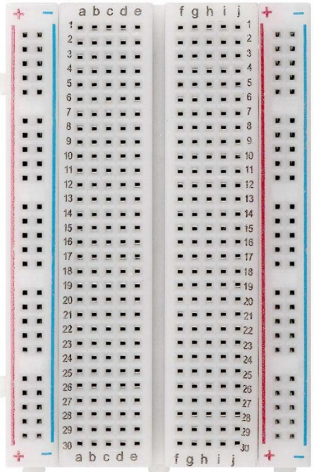
470Ω RESISTOR
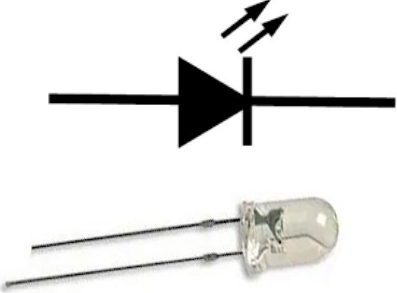
BREADBOARD
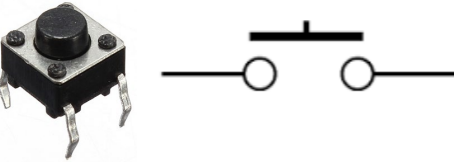
4.5V BATTERY PACK

LED (Light Emitting Diode)

PUSH BUTTON SWITCH

WIRES

Figure A: Circuit Diagram or Schematic
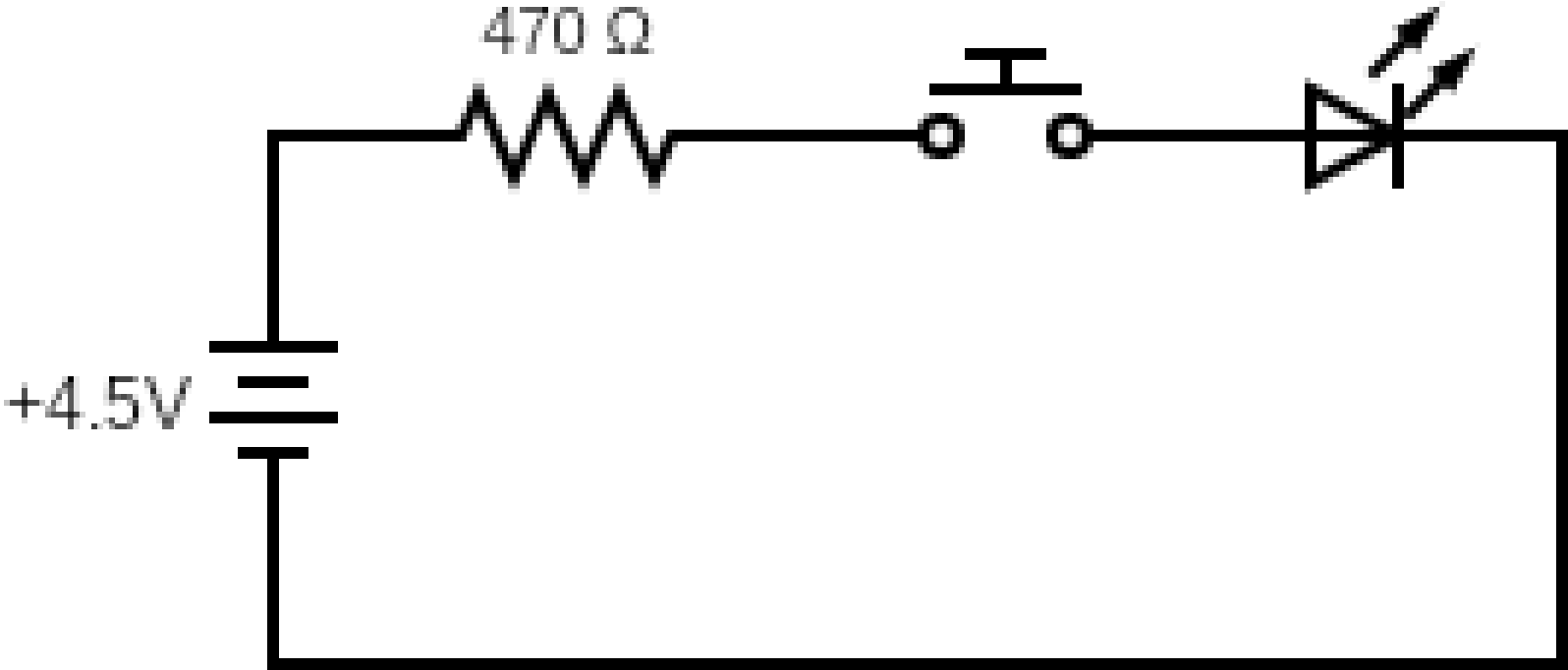
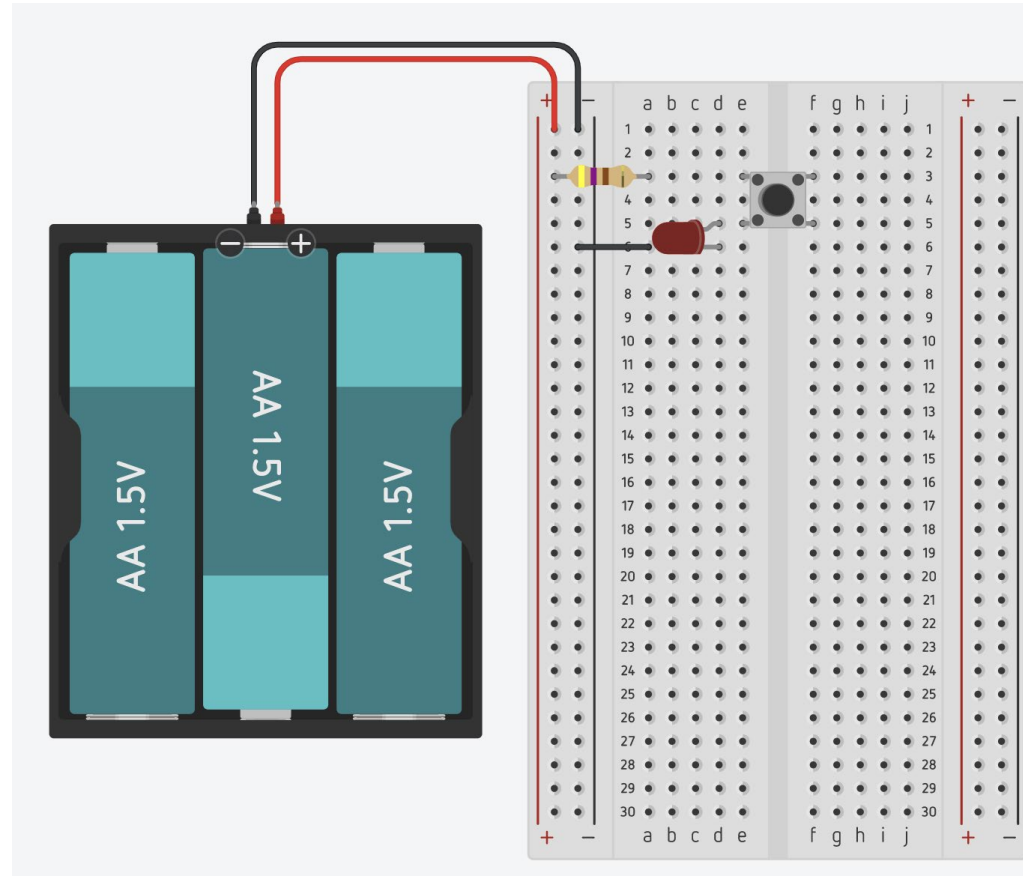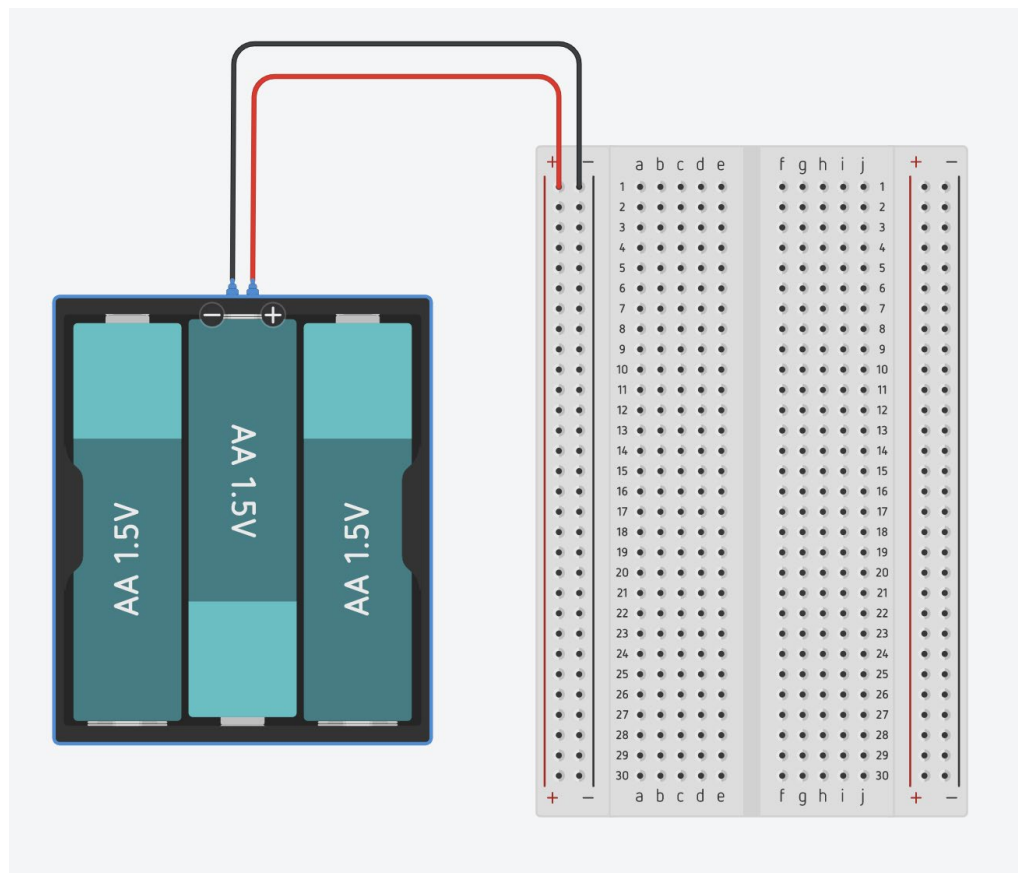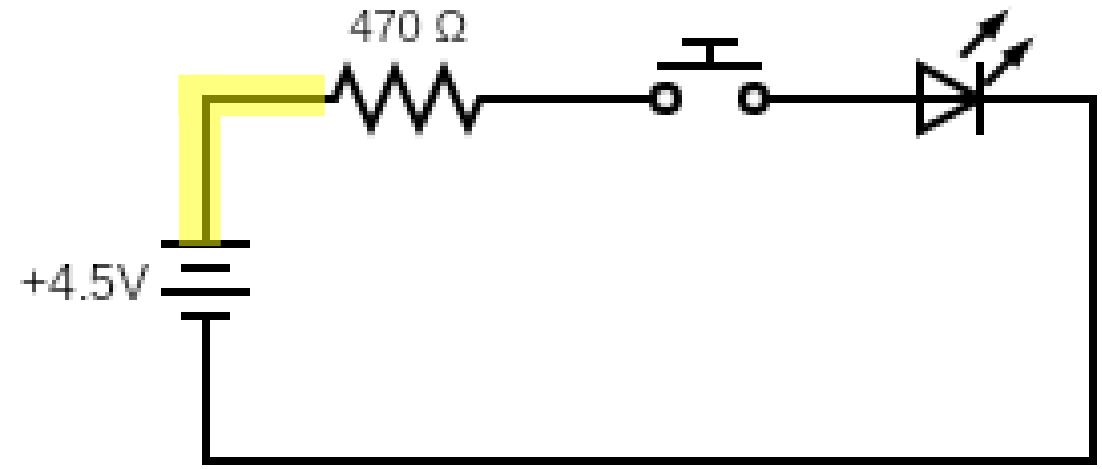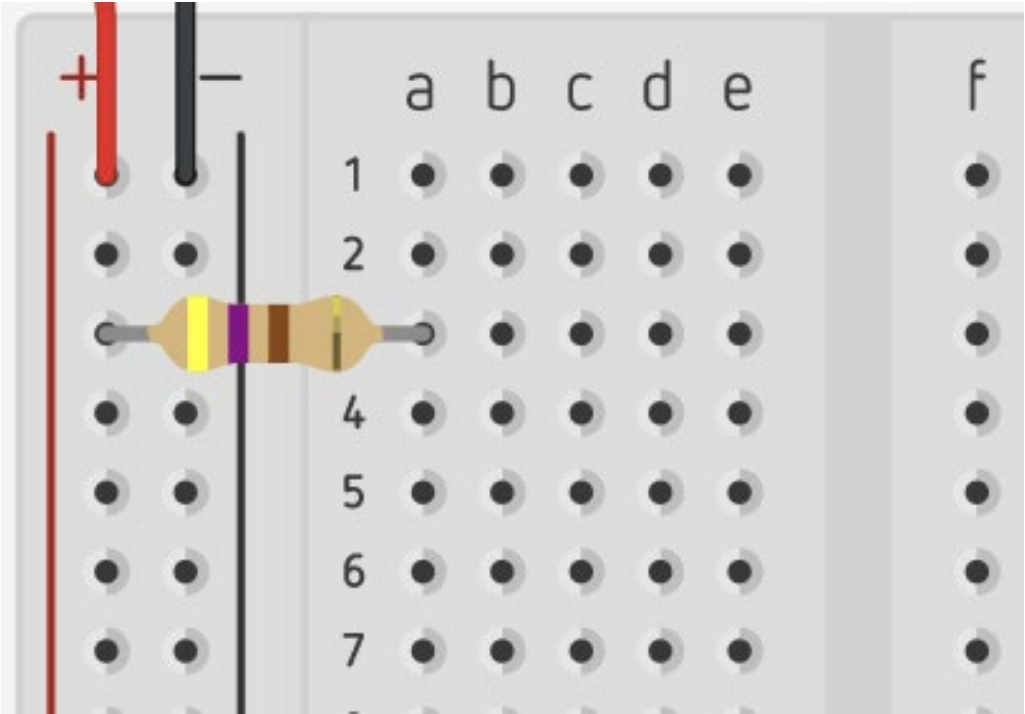# **Figure B:** Drawing of your circuit

# Hook up your 4.5volt battery to the breadboard

Make sure the positive (+) and negative (-) ends of the battery are connected to the appropriate (+) and (-) power buses on the breadboard. Make sure the battery is turned off! Only turn on the battery after the circuit is completed!
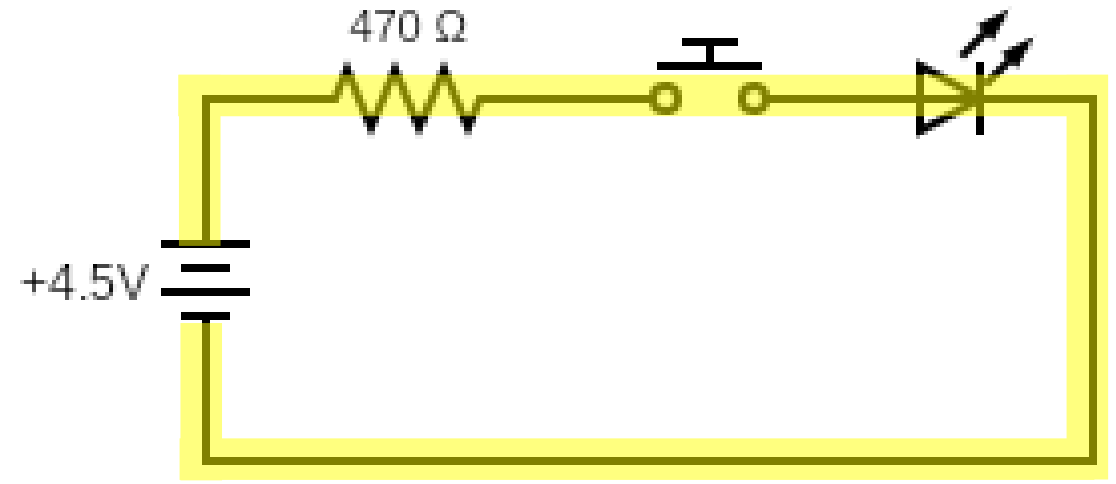
470 Ω

+4.5V

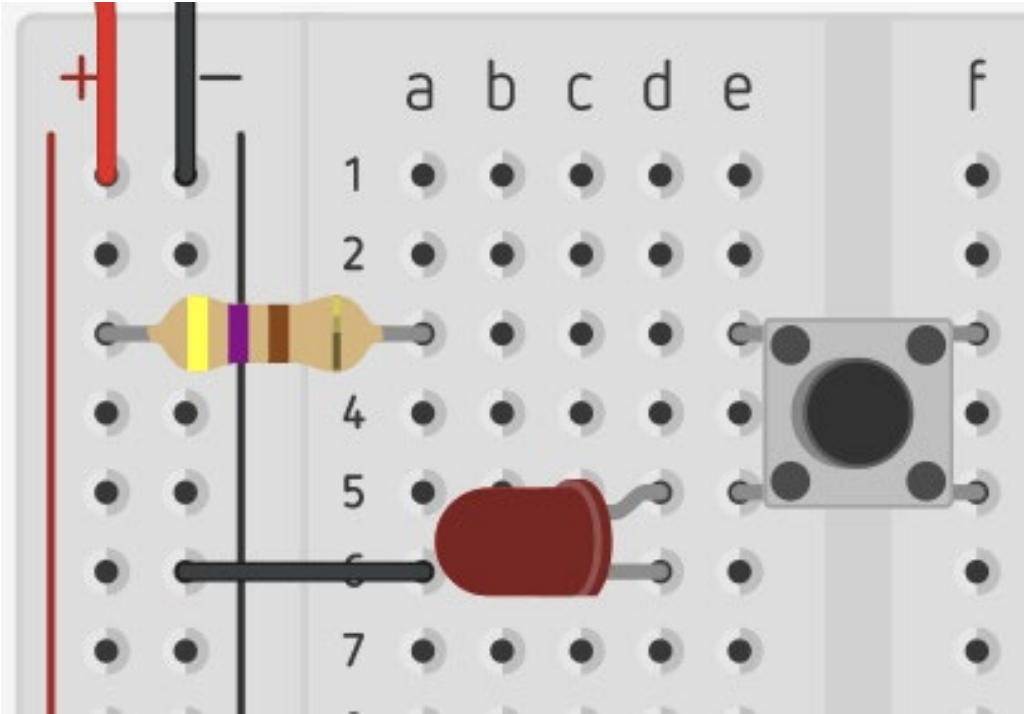Connect a jumper cable from the (+) power bus to a 3A on the terminal strip.
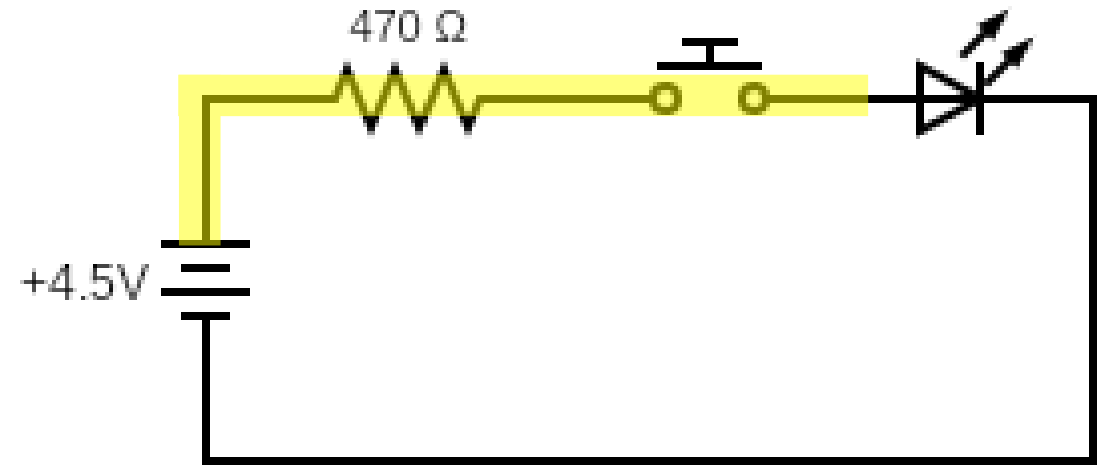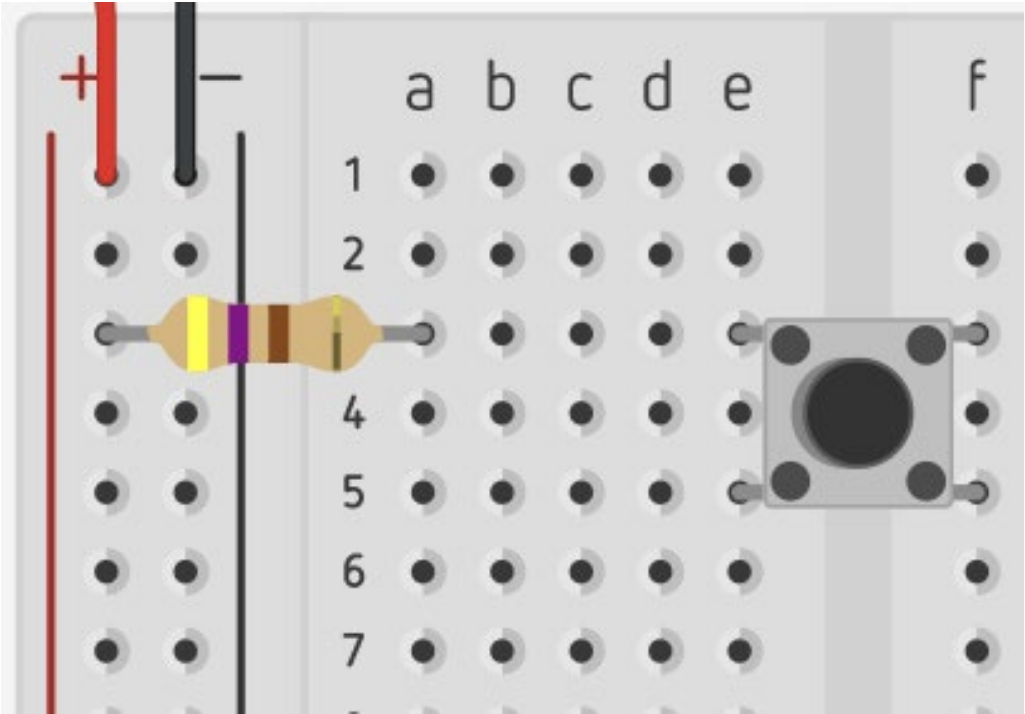
Connect your push button switch so that one of the sides pins is in 3E and 5E and the other sides pins are in F3 and F5

470 Ω

+4.5V
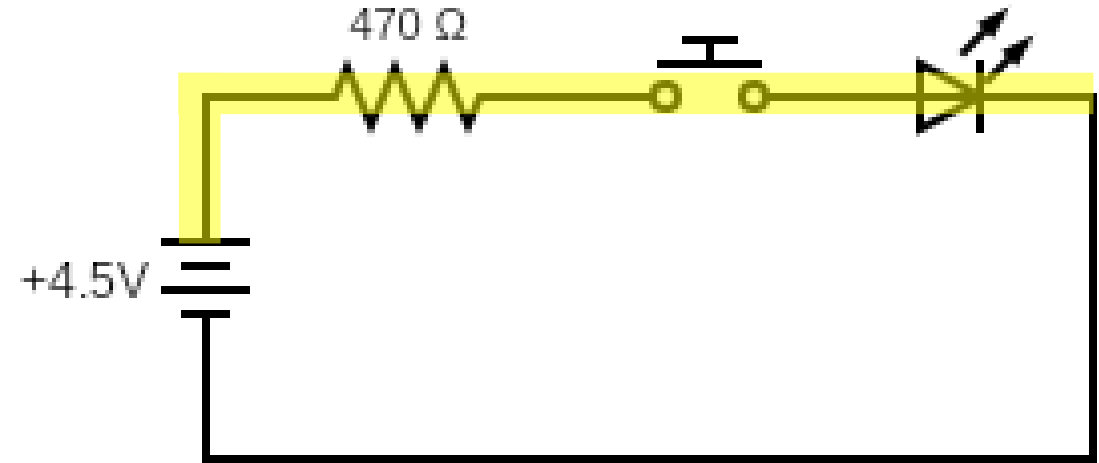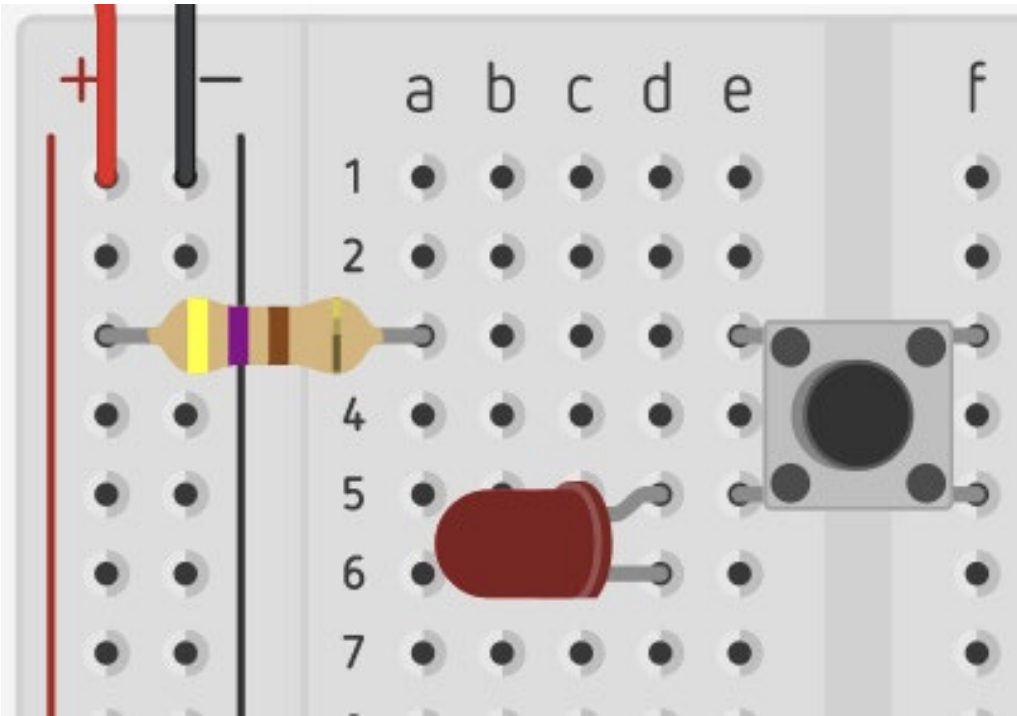
Connect the (+) leg of the LED to 5D and the other leg (–) to 6D

470 Ω

+4.5V

Connect the LED to ground by connecting one end of the wire to 6A and the other end to the (–) power rail.

Turn the LED on and off using the button switch!

If it doesn't work, check to see if your LED is backwards. Also, check the orientation of the pushbutton switch to make sure connection is made between the same side pins.

SQUARE BRAIN
BASIC LED CIRCUIT
with Button Switch