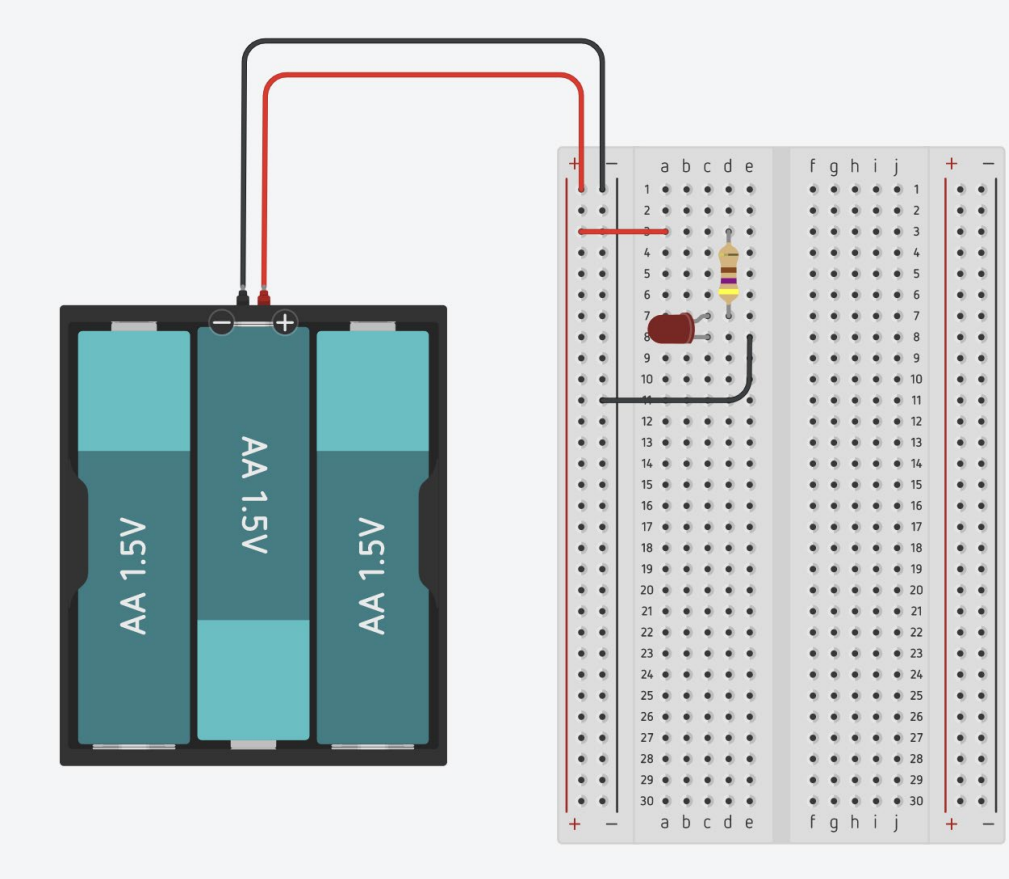
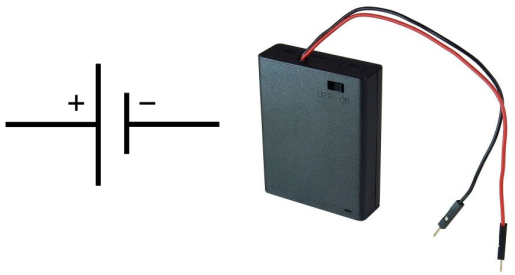
Basic LED Circuit

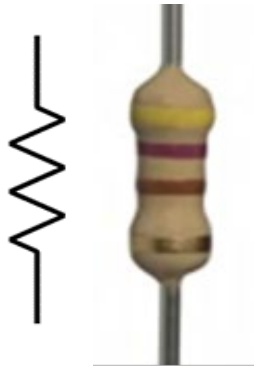


Here are the components you will need to build the Basic LED Circuit.

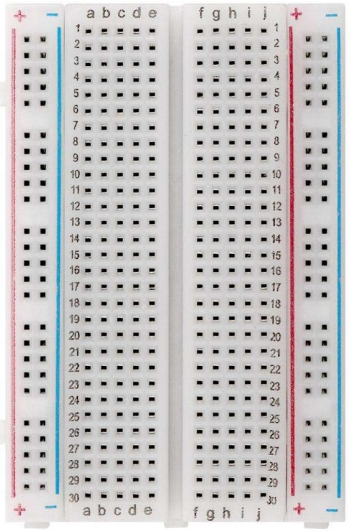
4.5V BATTERY PACK



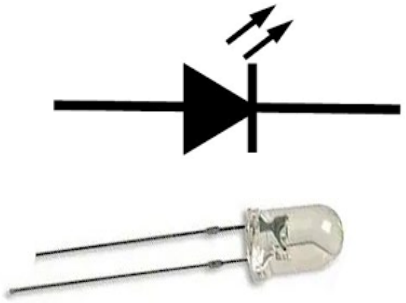
470Ω RESISTOR



BREADBOARD



LED (Light Emitting Diode)



WIRES

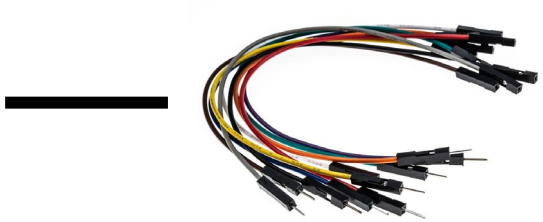


Figure A: Circuit Diagram or Schematic

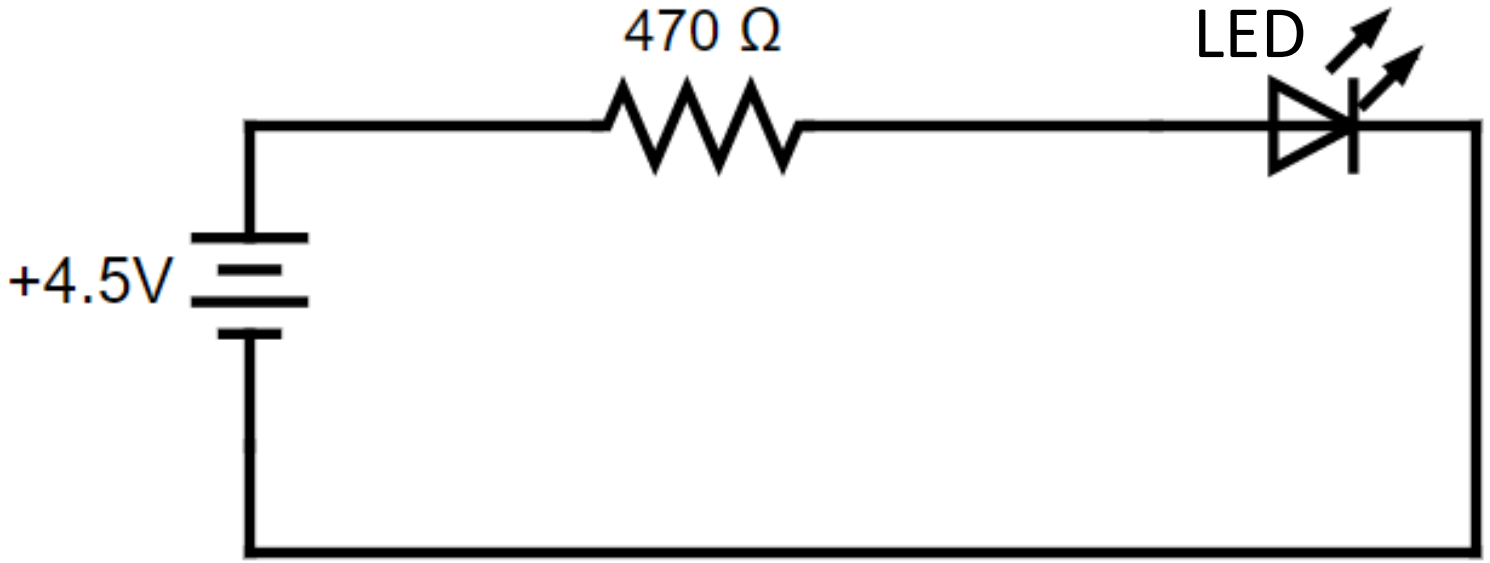
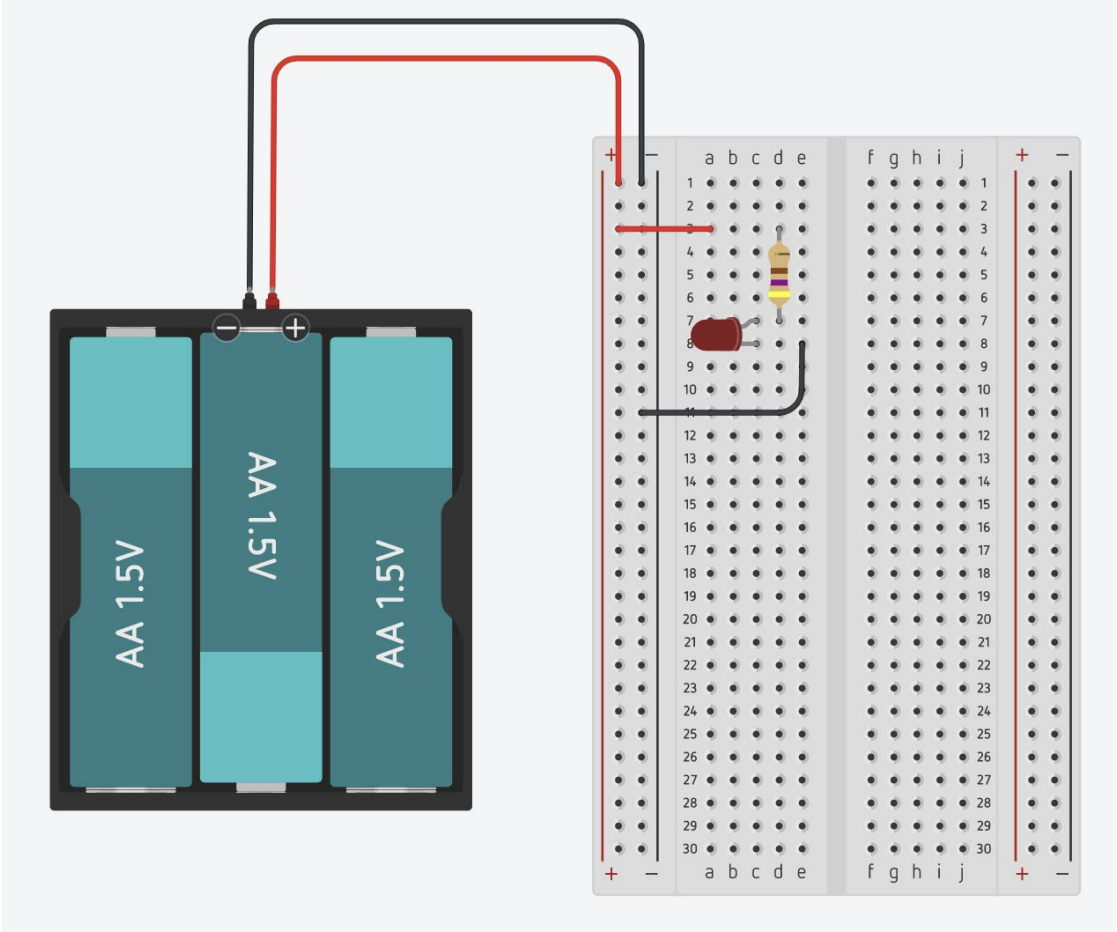
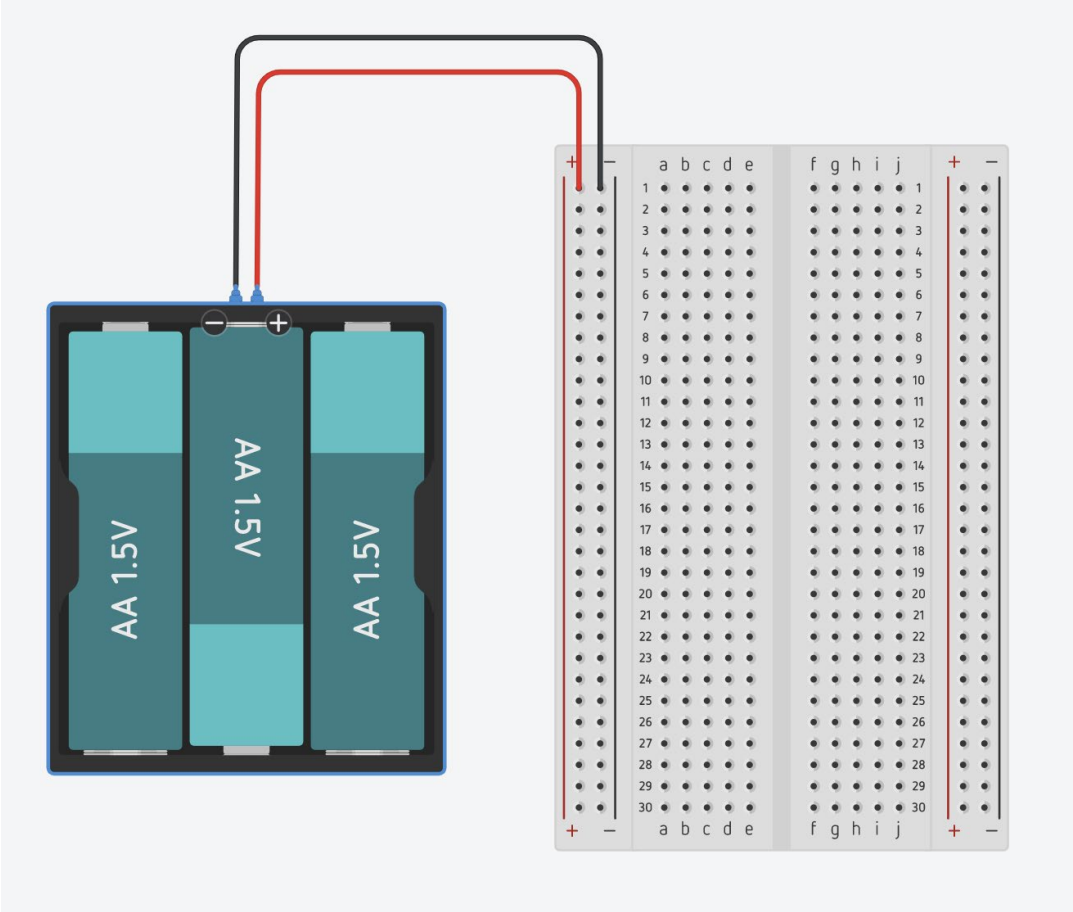


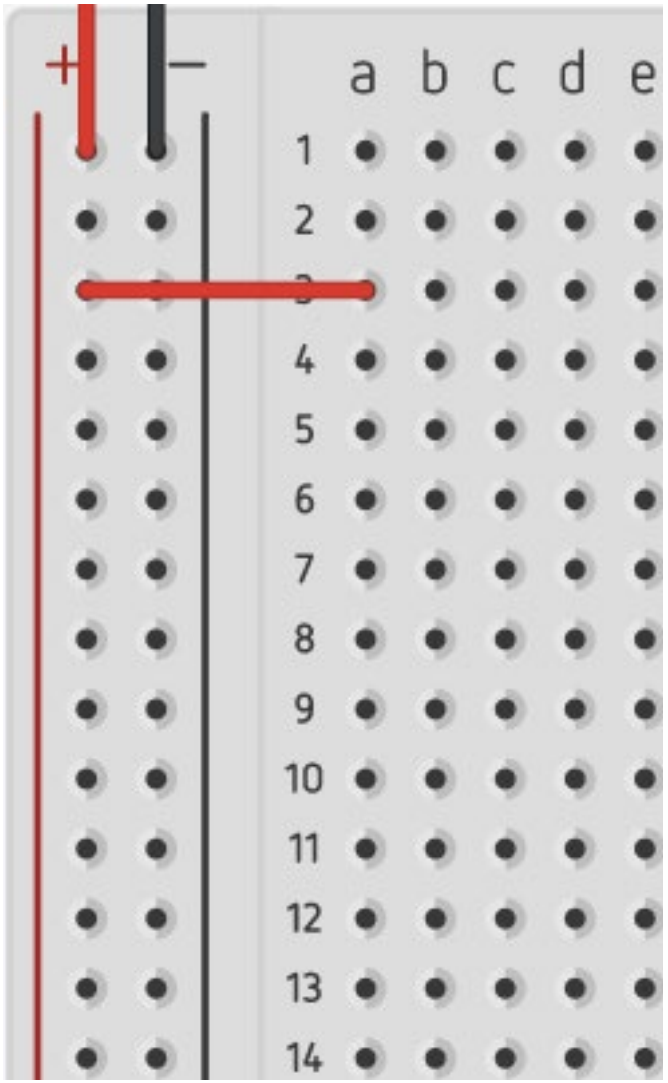
Figure B: Drawing of your circuit

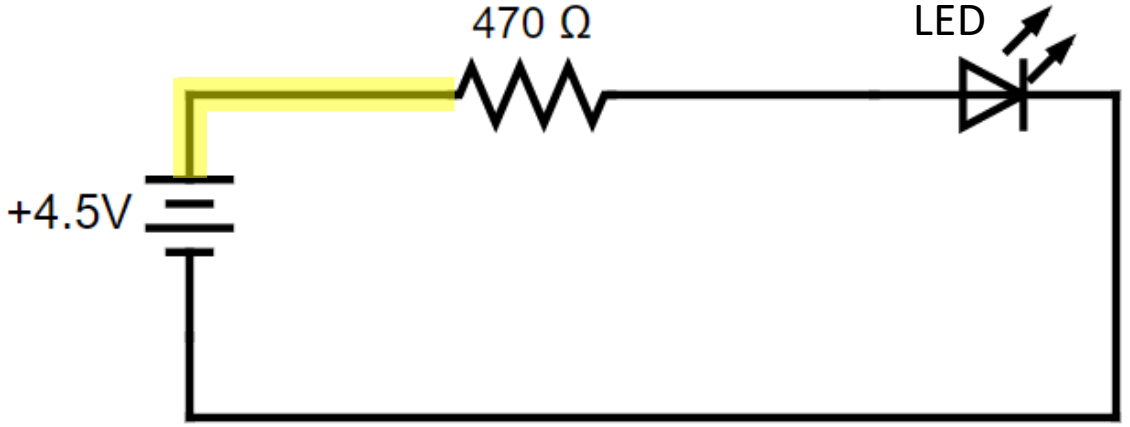




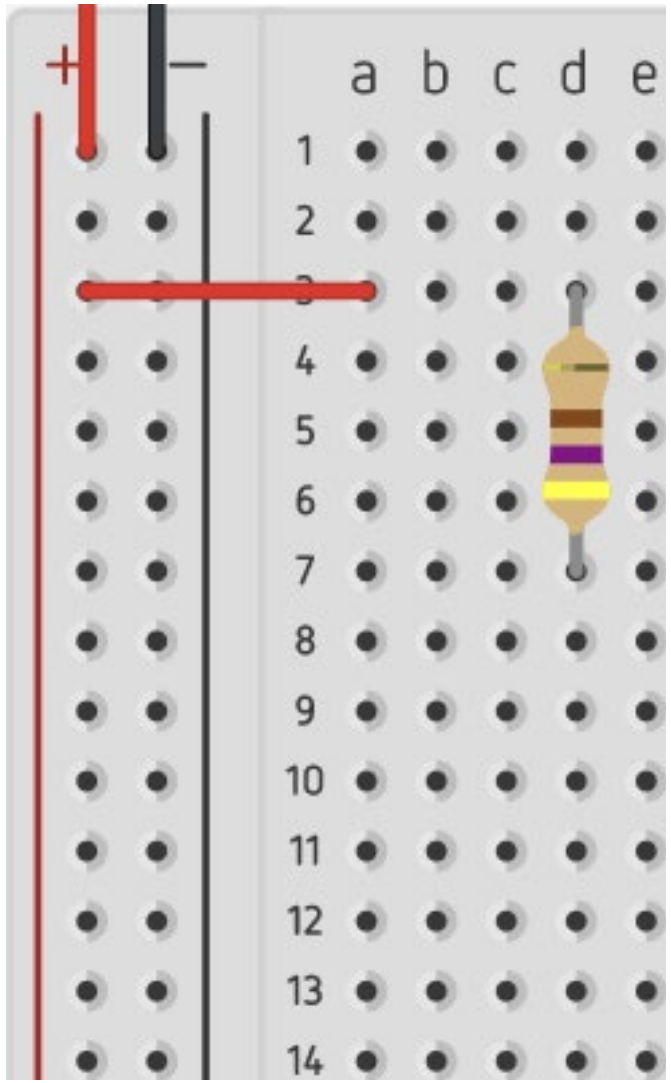
Hook up your 4.5 volt battery to the breadboard

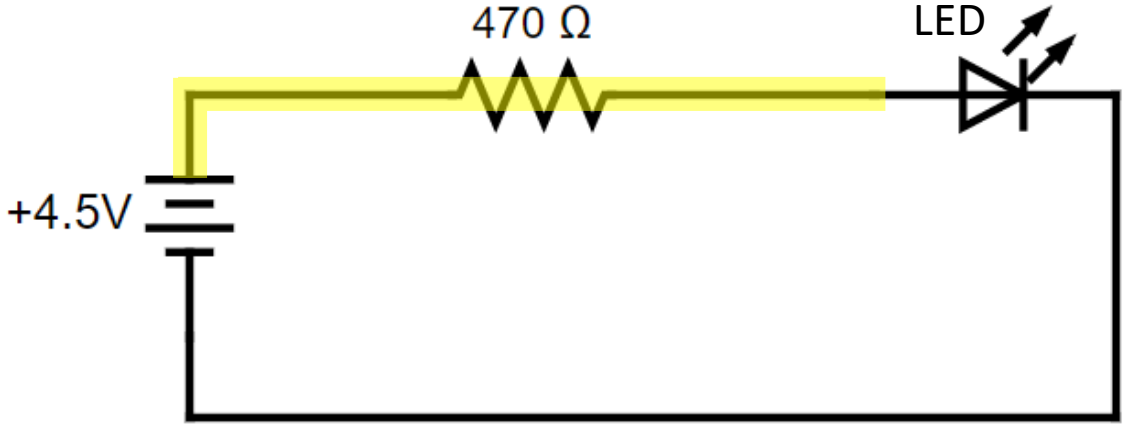
Make sure the positive (+) and negative (-) ends of the battery are connected to the appropriate (+) and (-) power buses on the breadboard. Make sure the battery is turned off! Only turn on the battery after the circuit is completed!



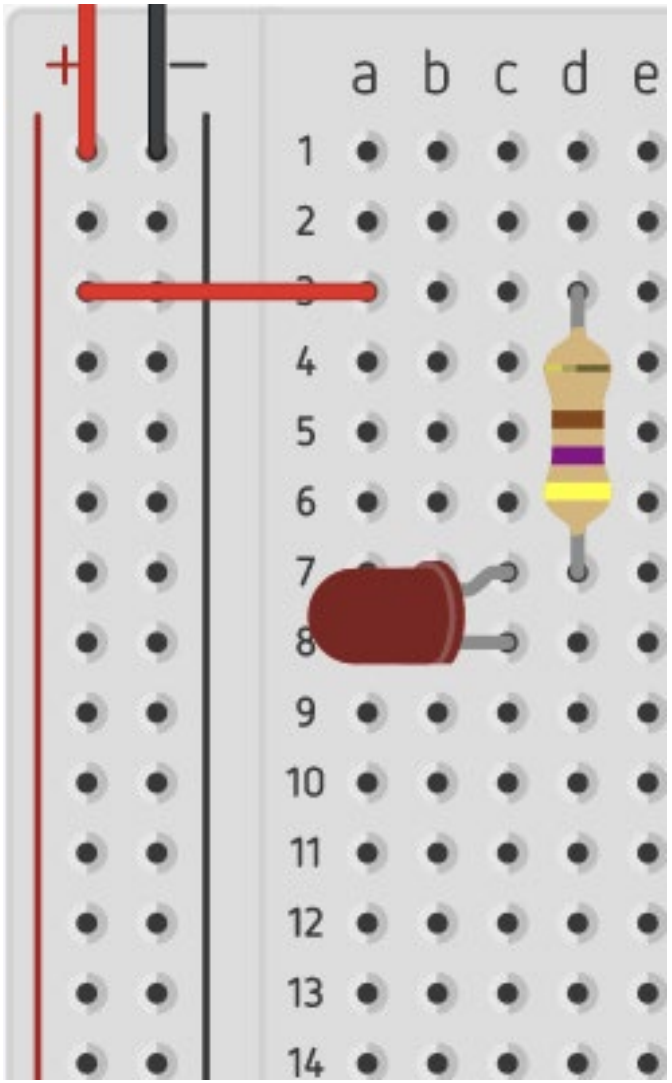


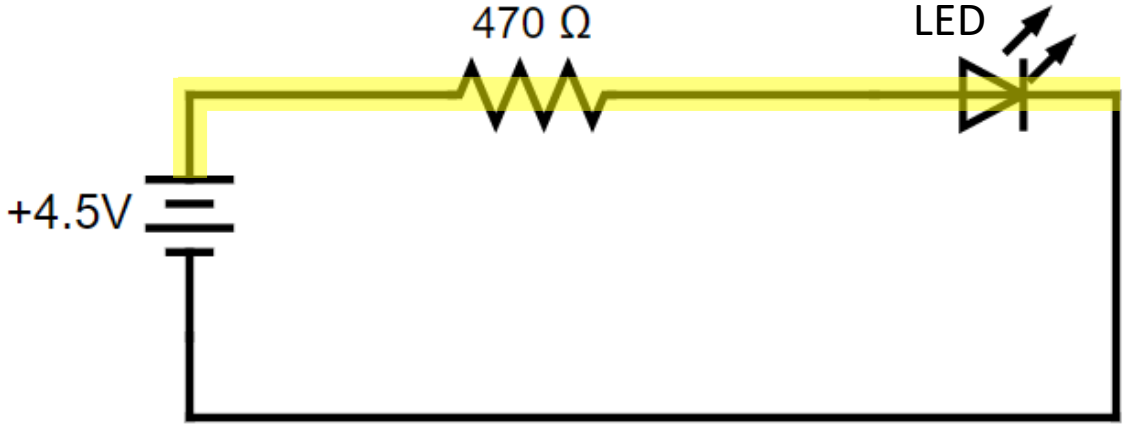
Connect a jumper cable from the (+) power bus to 3A on the terminal strip.



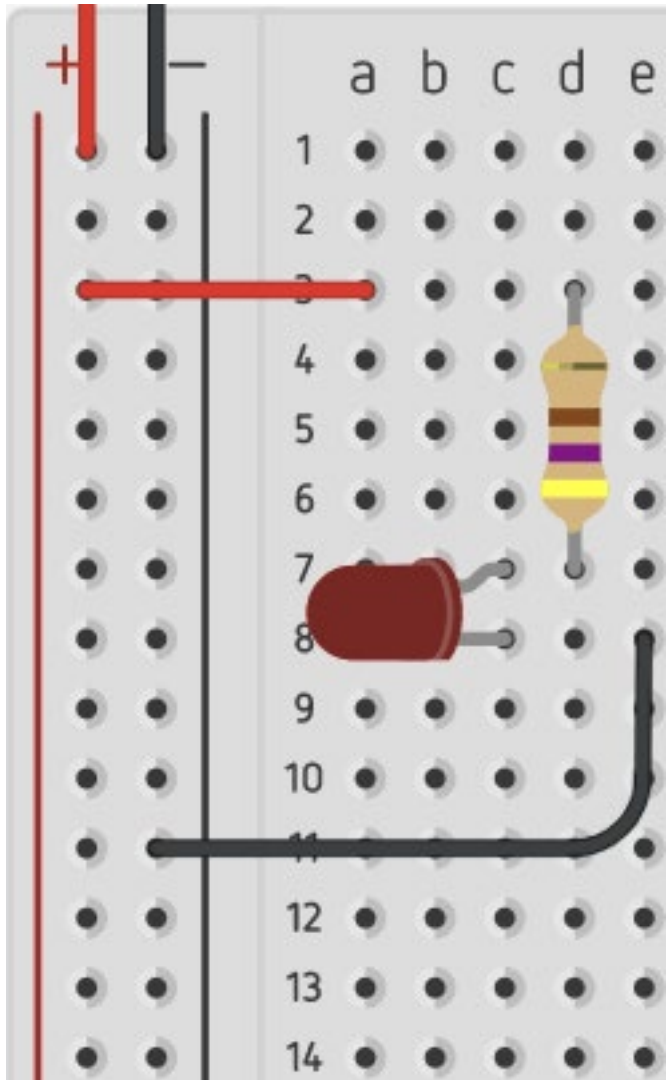


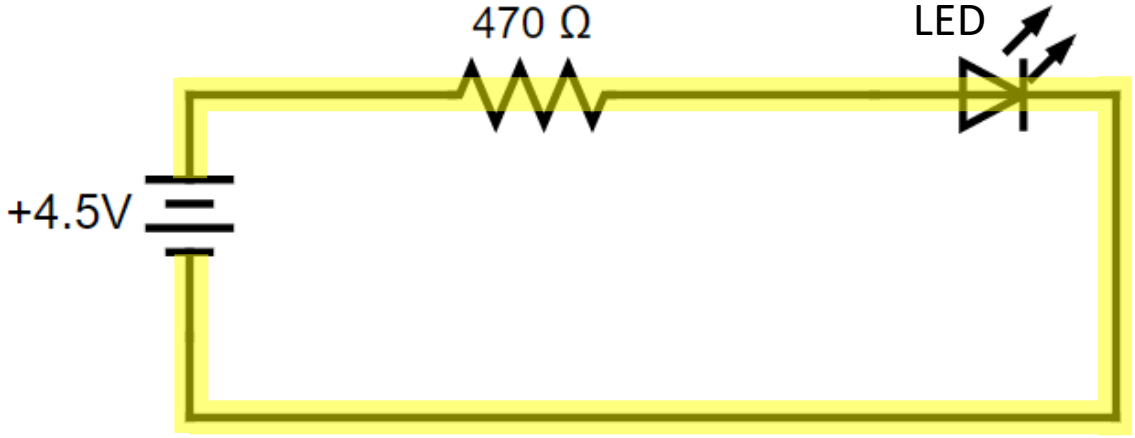
Connect your 470Ω resistor to 3D and the other end to 7D



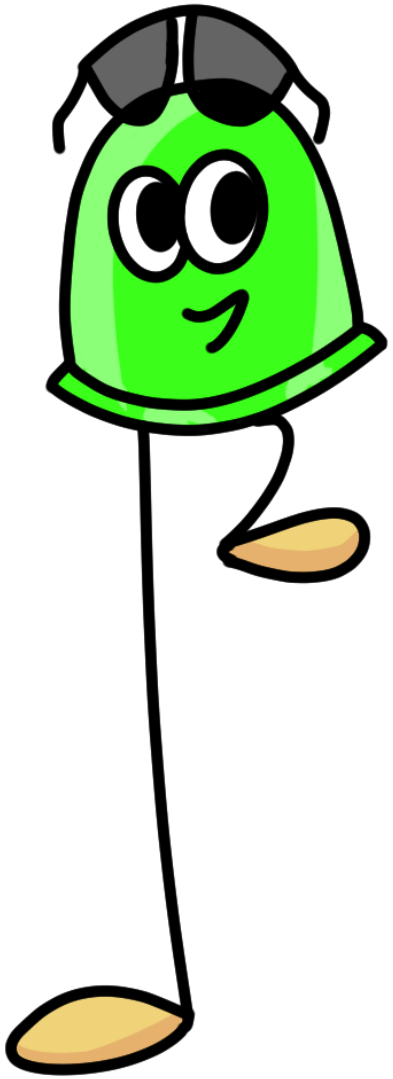


Connect the (+) leg of your LED to the resistor at 7C and the other (-) end to 8C





Finally, connect your wire from to 8E to a hole on the (-) power bus on the breadboard. Turn on the battery pack!



Turn on the battery to make the LED light up!

If the LED does not light up, check if the LED is in backwards and that the battery is turned on!

Make sure to use a resistor or you could destroy the LED! Try changing the value of the resistor ot see what happens!

SQUARE BRAIN

BASIC LED CIRCUIT