Intro to Circuits
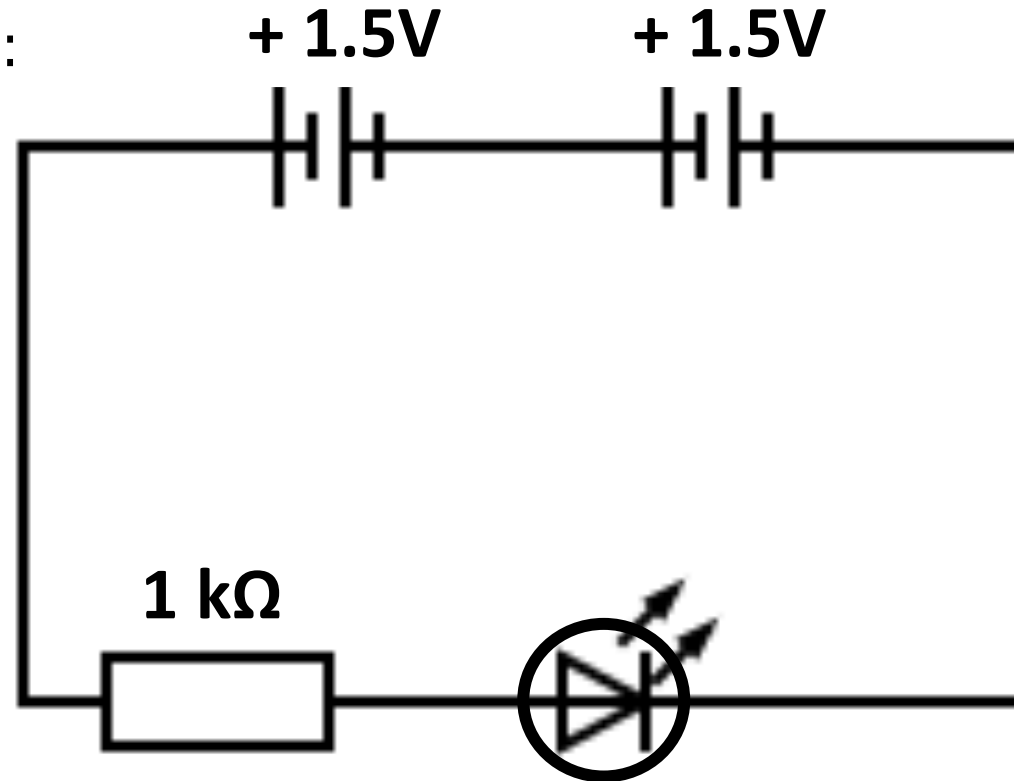
BRONZE Challenge:
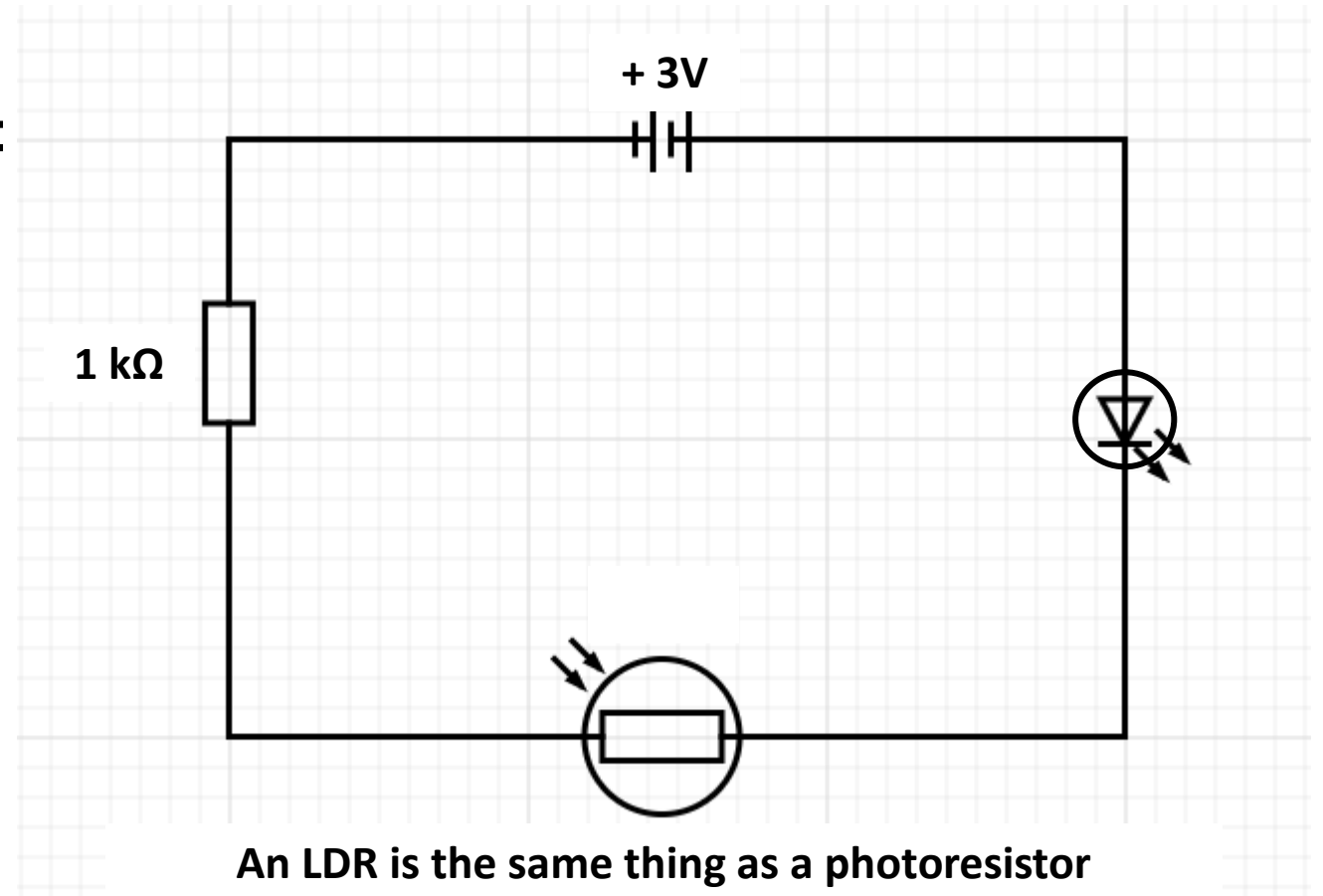
Recreate this circuit in TinkerCAD:

SILVER Challenge:
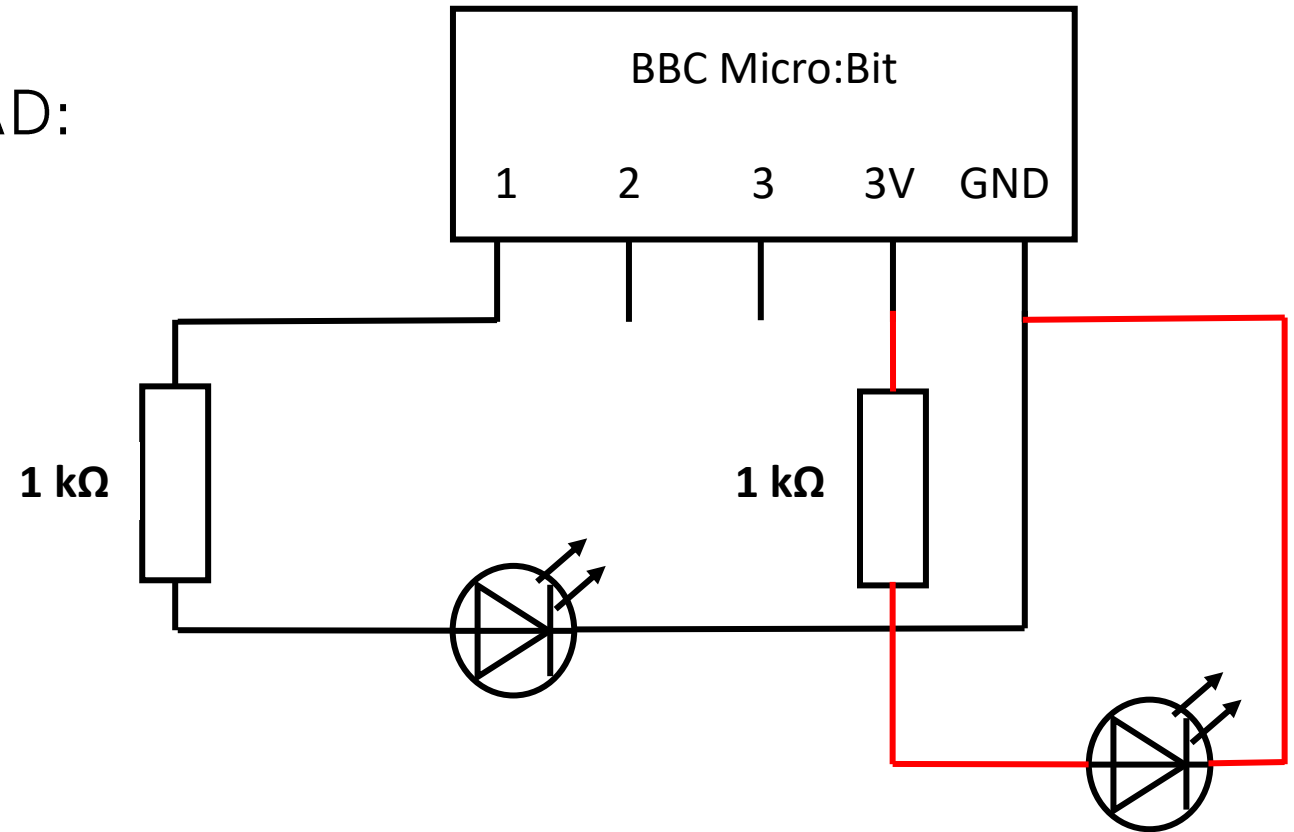
Recreate this circuit in TinkerCAD:

+ 3V

1 kΩ

An LDR is the same thing as a photoresistor

What happens to the brightness of the LED when the light level is changed in the simulation?

GOLD Challenge:

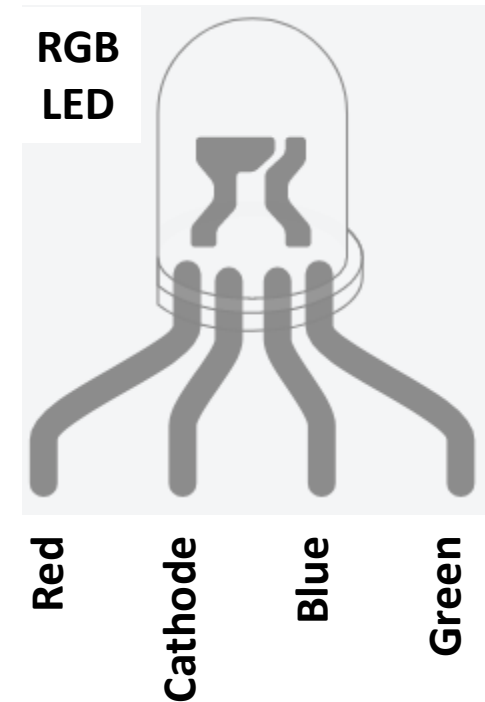Recreate this circuit in TinkerCAD:

Which LED is programmable? Can you program it to turn on and off using the Micro:Bit's A button?

Extension Challenge:

Create a circuit containing a resistor, a RGB LED, and a Micro:Bit.

Each colour will need to be connected to a different pin on the Micro:Bit.

RGB LED

Red Cathode Blue Green

Extension Challenge:

- Once the circuit is complete, program it so as different Micro:Bit inputs result in the light shining different colours.

- Can you figure out how to make the light shine yellow, magenta, cyan and white?

Thank You