**Day 7 Notes**

**Astrid and Gear**



Example Circuit

A circuit board with wires and wires

Description automatically generated

220Ω Resister for LED

10KΩ Resistor for Photoresistor

My Circuit

A circuit board with many wires

Description automatically generated

A0 – Photoresistor

2 – Green Button

3 – Blue Button

4 – Orange / Red Button

8 – Green LED

9 – Blue LED

10 – Red LED

Notes:

Looks like it is working, confirm the intended function of the following code:

// read the photoresistor value and map it to LED brightness:

int sensorValue = analogRead(photoresPin);

ledBrightness = map(sensorValue, 0, 1023, 0, 255);

// check if the pushbuttons are pressed. If they are, the buttonState is HIGH:

if (greenbuttonState == HIGH) {

analogWrite(greenLEDPin, ledBrightness); // adjust LED brightness based on light level

} else {

analogWrite(greenLEDPin, 0); // turn LED off