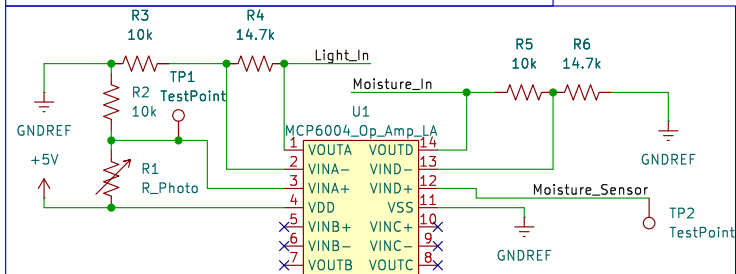
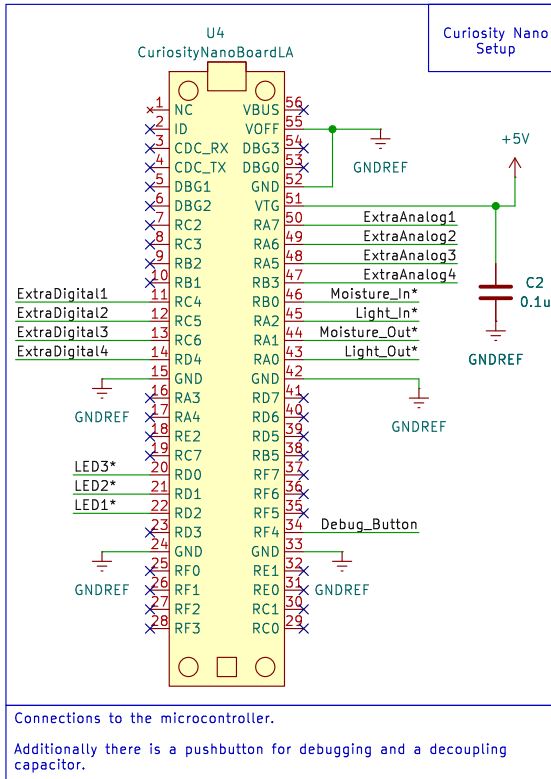
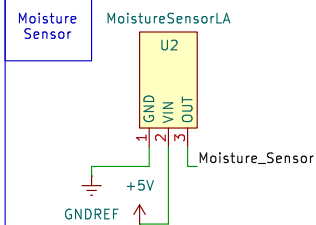


Amplifying circuit for the photoresistor and Moisture sensor



Op-Amp amplifier

Resistive moisture sensor connections



Connections to the microcontroller.

Additionally there is a pushbutton for debugging and a decoupling capacitor.

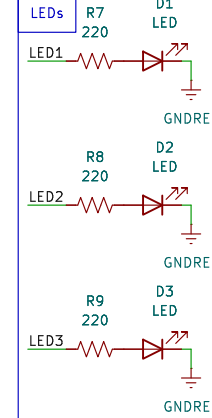
Important notes:

Unless otherwise indicated all resistors are 1/4W

Unless otherwise indicated all caps are rated for 50V

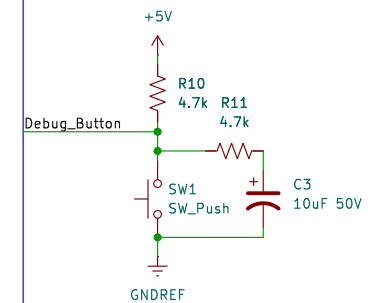
D1 indicates that the board is sending information to the hub board.

D2 and D3 are debug LEDs



Debugging button with debounce.

Button with a 10uF cap for debounce.



Sheet: /

File: BigImportantPCB.kicad_sch

Title: Sunlight and Moisture Sensor

Size: A4 Date: 2025-10-24

KiCad E.D.A. 8.0.7

Rev: 0.2.1

Id: 1/1