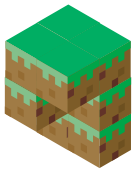
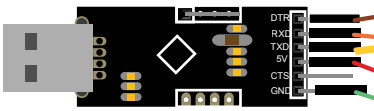
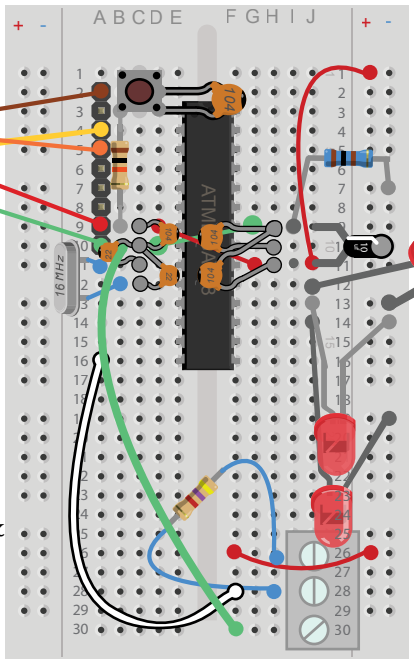
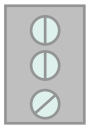








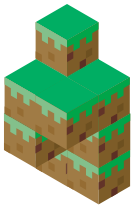
3pin Screw connector Block x1

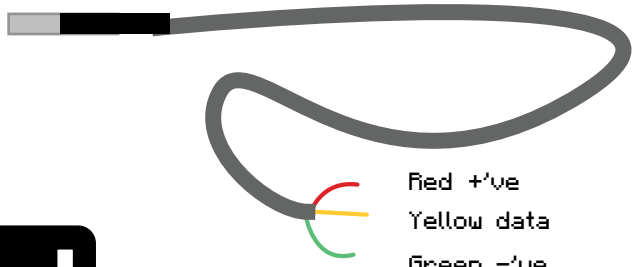
4.7KOhm vaResistor x1

Jumper wires x3

Connect a jumper wire (white) from A16 to F28: this is our digital read wire connected to DIGITAL 8 on the arduino chip pins

Connect a jumper wire F26 to the red (+'ve) rail to power the sensor
Add a 'pull-up' 4.7K resistor between H28 & H26 for the sensor
Connect a jumper wire F30 directly to ground (-'ve) on B10 to stop LEDs affecting readings



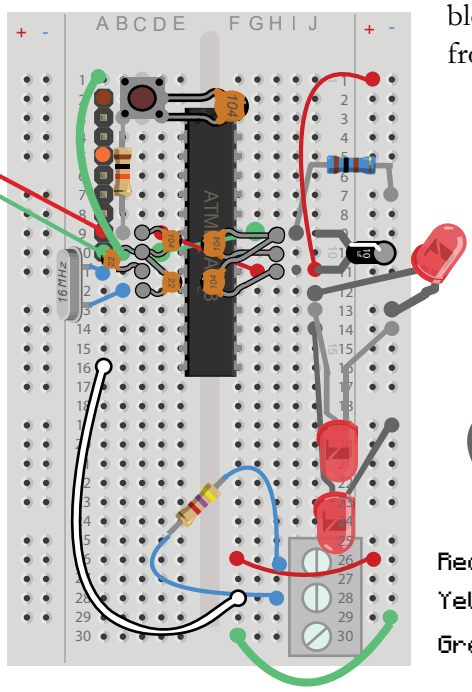


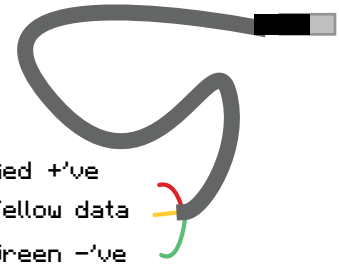
Red +'ve
Yellow data
Green -'ve

DS1820B Waterproof Temperature sensor x1

Now add your temperature sensor to the board. You may have to adjust the wiring if the terminal block you are using is different from the one here.

3 x AAA Battery Holder (4.5V)





Red +'ve
Yellow data
Green -'ve

#Now use the USB connector to upload the **WalneyTemperatureListener.ino** to the arduino. Use Arduino UNO as the board type and the serial port will be something like tty.SLAB_USBtoUART or COM0 etc

#Then to go wild and launch your sensor you need to disconnect your USB connector and hook up your battery pack: insert the red wire (+'ve) into A9 and the green wire (-'ve) into A10. Once connected we can stick the pack to the underside of the breadboard and seal within the bag the components came in with the temperature tail sticking out!

You may find you want to adjust the code to flash LEDs based on colder temperature readings.

LAUNCH with caution!