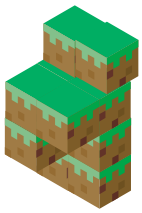
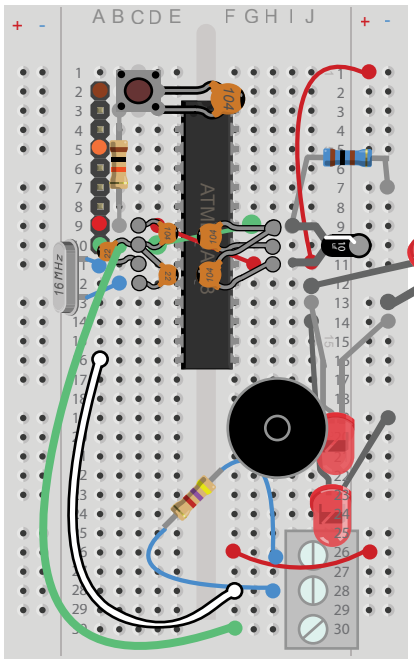


We are going to add a piezo beeper, which can play Nokia Ringtone (RTTTL) tunes according to scheduled alarms you program in.

Piezo is short for Piezoelectric transducer. It uses a piezoelectric effect where applying a voltage generates flexing within a ceramic material. The effect means it can be used as a sound generator if vibrated at the right frequency.

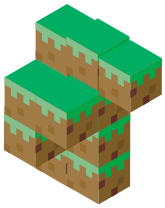



Piezo Transducer x1


100 Ohm Resistor x1


Jumper wires x3

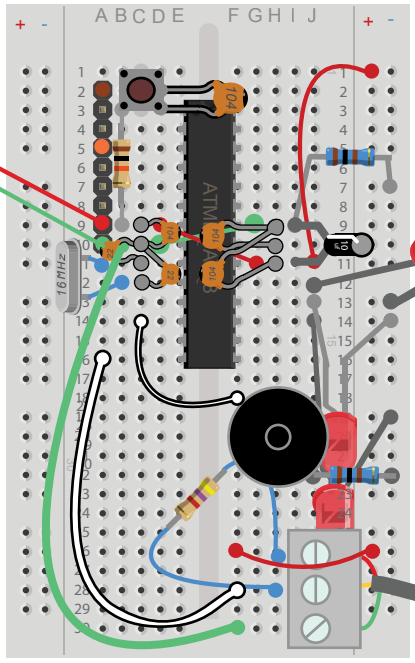
Add the Piezo's metal feet so they slot between row 18 and row 22. Make sure you leave room for a resistor and a control pin.




2 x AAA Battery Holder (4.5V)

#Now use the USB connector to upload the **TempSong.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!



Next add a 100 Ohm resistor to go between the blue rail and row 22, and a jumper wire between row 18 and D14 which connects to the arduino digital pin 6.


Red +'ve
Yellow data
Green -'ve

You can now experiment with the code to play different RTTTL tunes!