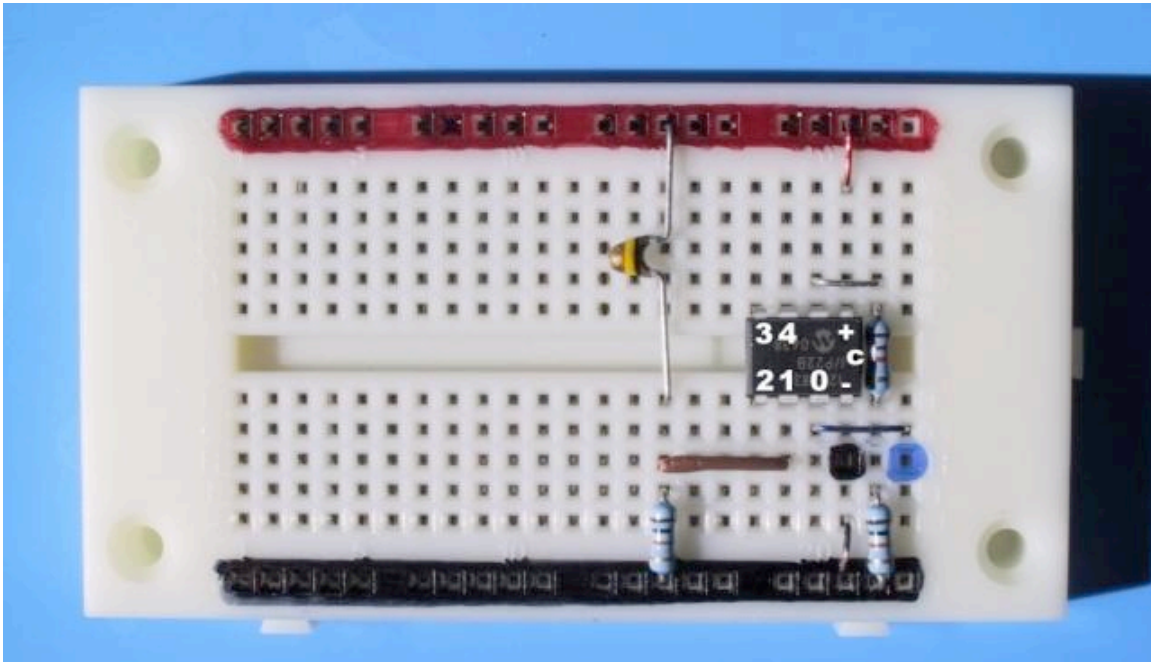
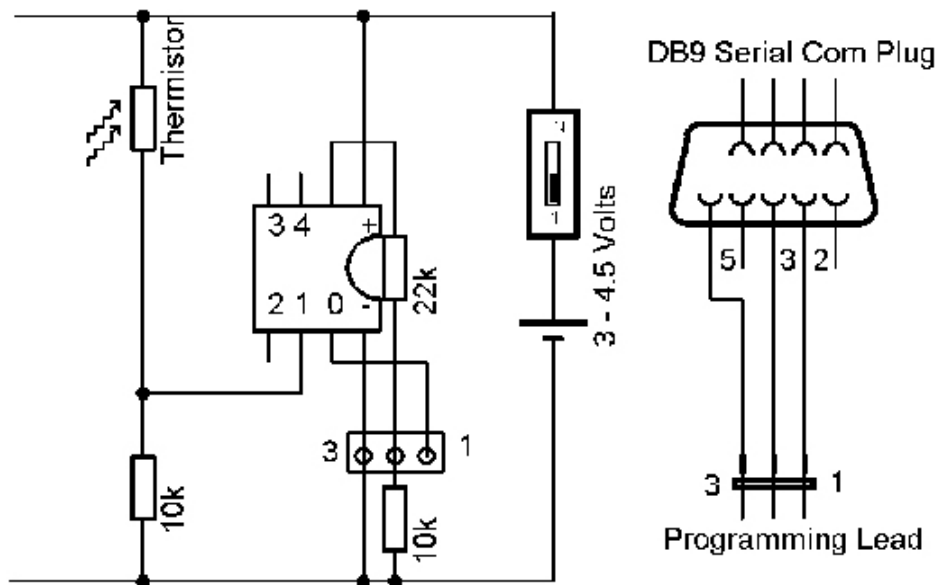


# Thermistor Temperature Sensor



**Loopa:**  
readadc 1, b1  
sertxd ( "Greenhouse Temperature is now = ", #b1, 13, 10 )  
goto Loopa



- Press the F8 key (serial terminal) and choose 4800 baud to see the messages
- Change the text inside the "quotes" to change the message
- The 100k thermistor and a 10k resistor potential divider give almost accurate "Degree C" results within a degree C between 15 to 25 degree C
- The temperature can be also be calibrated using simple math to add or subtract a few degrees to the raw temperature count.  $b2 = b1 + 2$  etc
- Look up the readadc10 command and work out how to get to get  $\frac{1}{4}$  of a degree C resolution using let statements and simple picaxe math. These ideas are on the F8 word template
- The DS18B20 digital chip with the readtemp and readtem12 commands make an advanced highly accurate system (-65 to 125 Deg C +/-  $\frac{1}{16}$ <sup>th</sup> Deg C)