# Temperature Sensor (analog)

- use a breadboard for connecting it to your Arduino
- the sensor in the kit is analog, meaning it is a resistor that changes its value depending
  on temperature
- use the *Arduino Serial Monitor* to see how the readings change when temperature changes
- read THIS for ways to get readings in Celsius, and to improve the accuracy of the measurement

serial monitor button
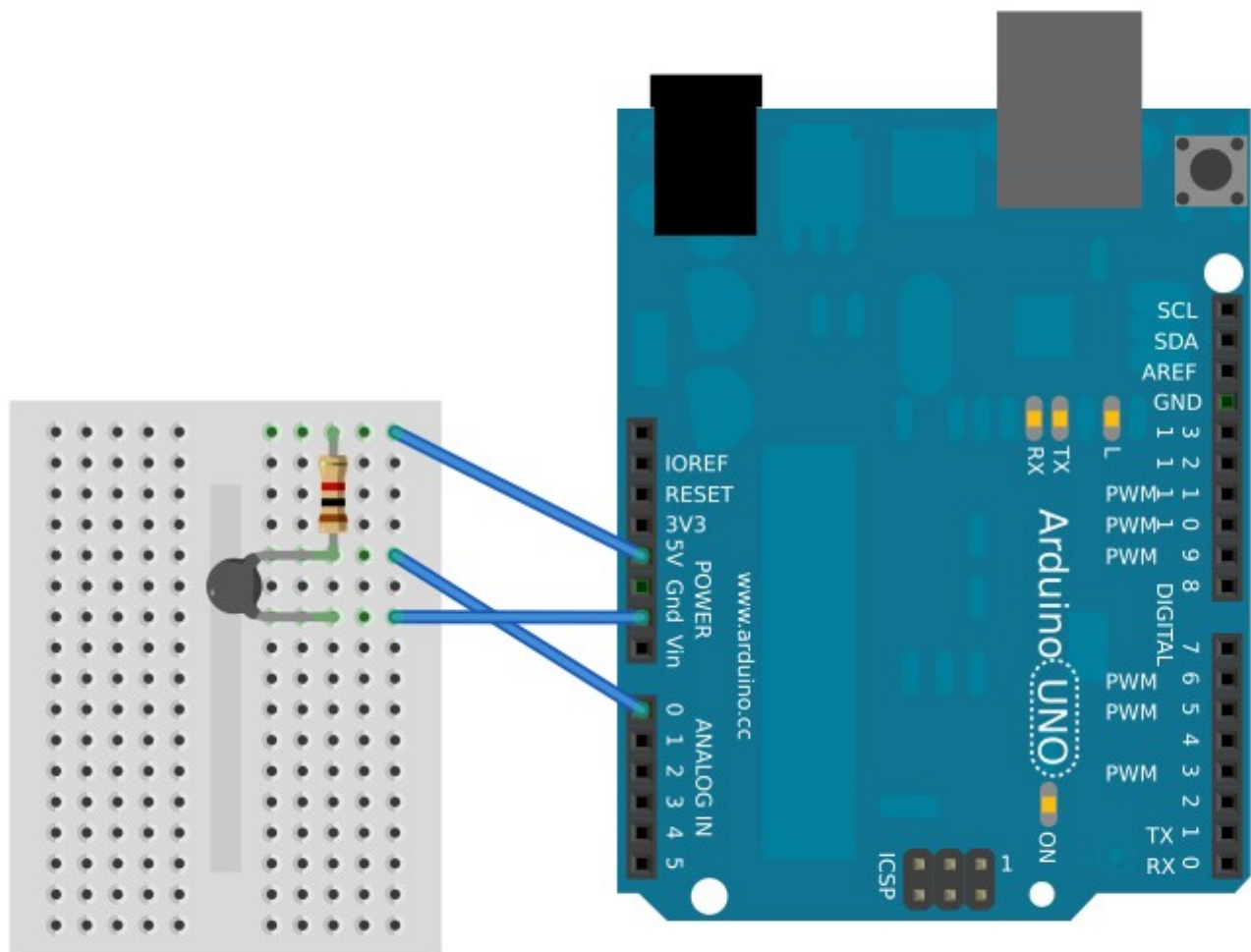
Sample Code: use with Serial Monitor

```
/*
 AnalogReadSerial
 Reads an analog input on pin 0, prints the result to the serial monitor.

 This example code is in the public domain.
 */
```

```
                                    // the setup routine runs once when you press reset:
void setup() {
                                    // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

                                    // the loop routine runs over and over again forever:
void loop() {
                                    // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
                                    // print out the value you read:
  Serial.println(sensorValue);
  delay(1);                         // delay in between reads for stability
}
```

Source:

Arduino IDE – File – Examples – Basics - "Analog Read Serial"