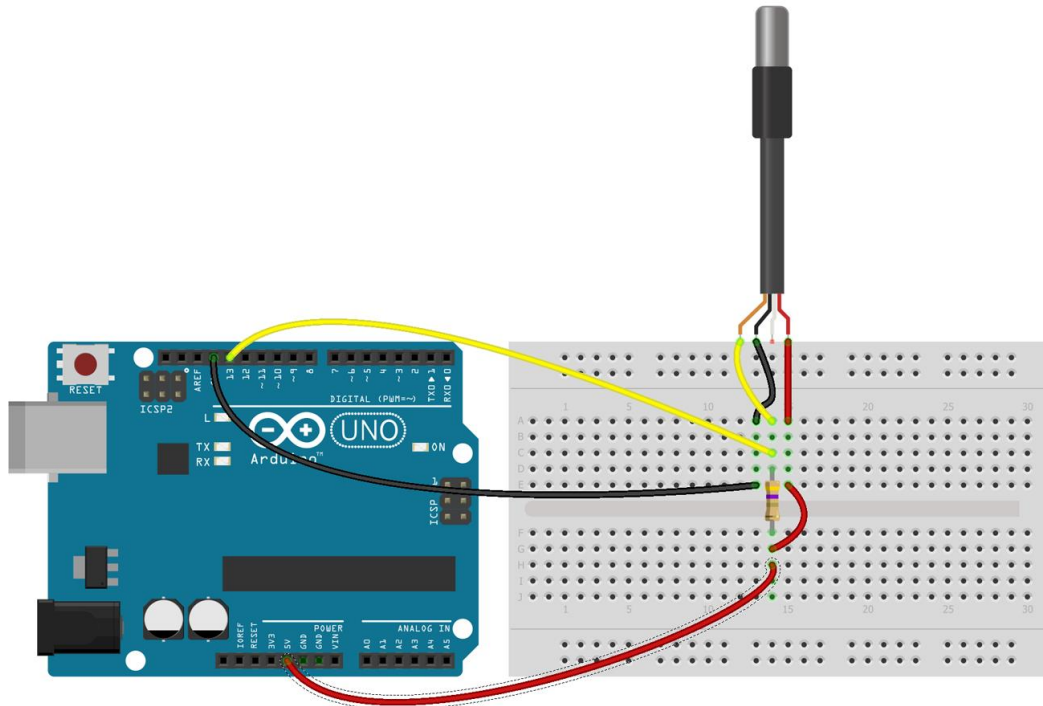


Temperature Sensor Circuit



For Complete Details Visit :
www.Circuits-DIY.com

```
#include <OneWire.h>
#include <DallasTemperature.h>

const int SENSOR_PIN = 13; // Arduino pin connected to DS18B20 sensor's
                             // DQ pin

OneWire oneWire(SENSOR_PIN);           // setup a oneWire instance
DallasTemperature tempSensor(&oneWire); // pass oneWire to
DallasTemperature library

float tempCelsius;    // temperature in Celsius
float tempFahrenheit; // temperature in Fahrenheit

void setup()
{
    Serial.begin(9600); // initialize serial
    tempSensor.begin(); // initialize the sensor
}

void loop()
{
    tempSensor.requestTemperatures(); // send the command to
    get temperatures
```

```
    tempCelsius = tempSensor.getTempCByIndex(0); // read temperature in
Celsius
    tempFahrenheit = tempCelsius * 9 / 5 + 32; // convert Celsius to
Fahrenheit

    Serial.print("Temperature: ");
    Serial.print(tempCelsius); // print the temperature in Celsius
    Serial.print("°C");
    Serial.print(" ~ ");      // separator between Celsius and
Fahrenheit
    Serial.print(tempFahrenheit); // print the temperature in Fahrenheit
    Serial.println("°F");

    delay(500);
}
```