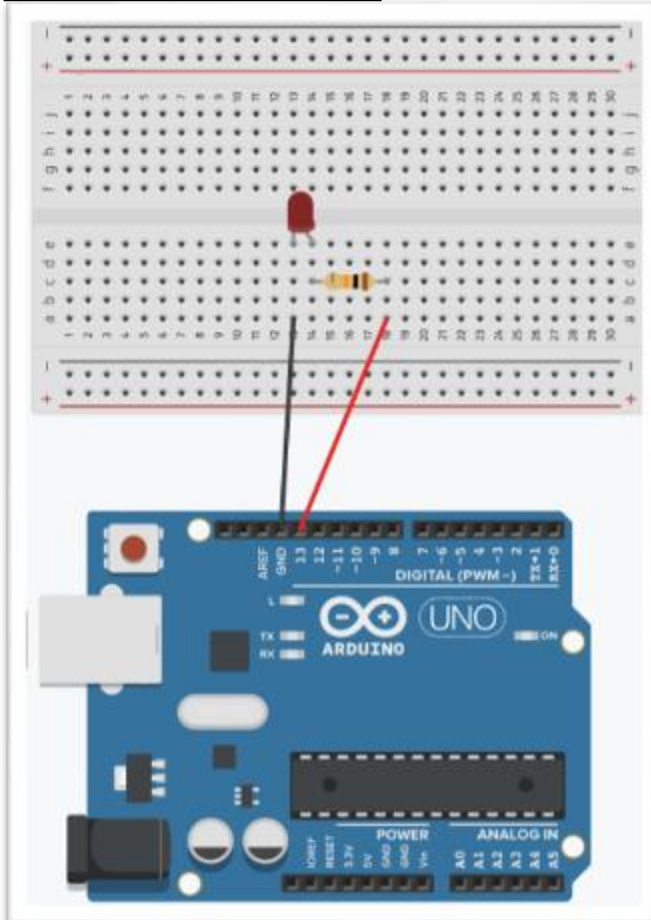# Using LED's and resistors

Y9 Digital Electronics Lesson 1

Task 1: Temperature Readings

Copy the circuit and code below to turn an LED on, wait one second and then turn it off!

The Circuit

The Code

```
1
2   int ledPin = 13; // Pin where the LED is connected
3
4   void setup() { // This function runs one at the start of the program.
5     pinMode(ledPin, OUTPUT); // Set the LED pin as an output
6   }
7
8   void loop() { // This function runs after setup and repeats forever.
9     digitalWrite(ledPin, HIGH); // Turn the LED ON
10    delay(1000);                // Wait for 1 second (1000 milliseconds)
11
12    digitalWrite(ledPin, LOW);  // Turn the LED OFF
13    delay(1000);                // Wait for 1 second
14  }
```

Task 2: Independent Challenge

Build on your circuit so that it has three LED's (You can use different colours!).

Turn each LED on, one by one before turning them off one by one.