

# Arduino Kit Components

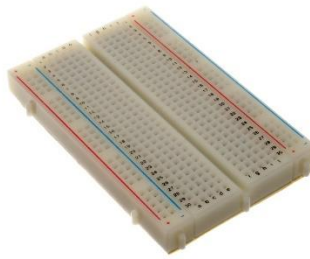
## Uno Board

This is the central component to the Arduino kit. It serves a similar function as the motherboard in a computer, being the centre where all connections and computing come together. Different modules are connected to the Uno, performing tasks as directed by the flashed program.



## Breadboard

A breadboard is a construction base used for the creation of electronic circuits. There are many small sockets in which various components such as wires, LEDs, and photoresistors can be connected to.

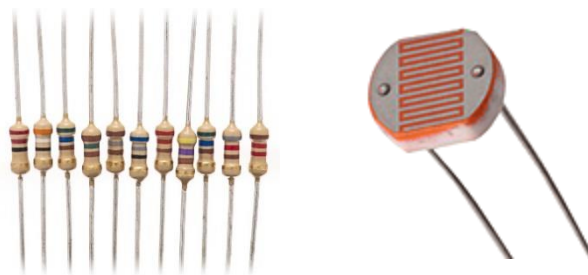


## Resistors and Photoresistors

Resistors are used in order to reduce the power in an electric circuit. This can be used for a variety of purposes, one being the dimming of lights. A photoresistor does the same thing, except its resistance decreases the more light it is exposed to.

Resistor ratings are as follows:

- 3 Brown Stripes → 1K
- 1 Pink Stripe → 10K
- 1 Orange Stripe → 100K
- 2 Pink Stripes → 200Ω



## Light Emitting Diodes (LED)

LEDs emit light when a current passes through them. They must be put into a circuit in the correct direction or they will not work. The “negative” end of an LED has a shorter leg and a flat spot on it's body.

