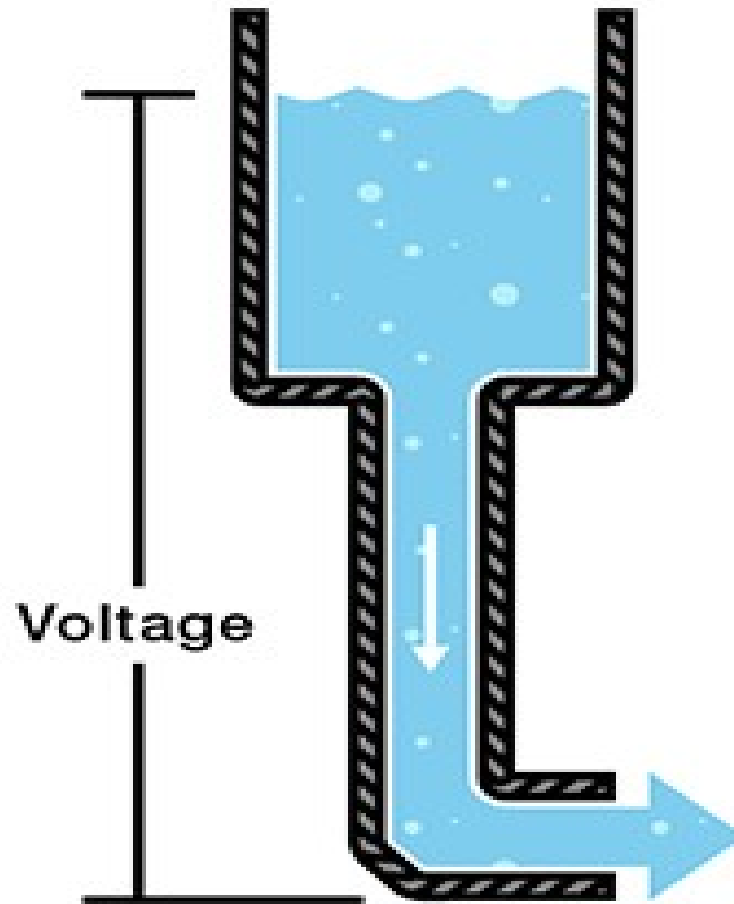
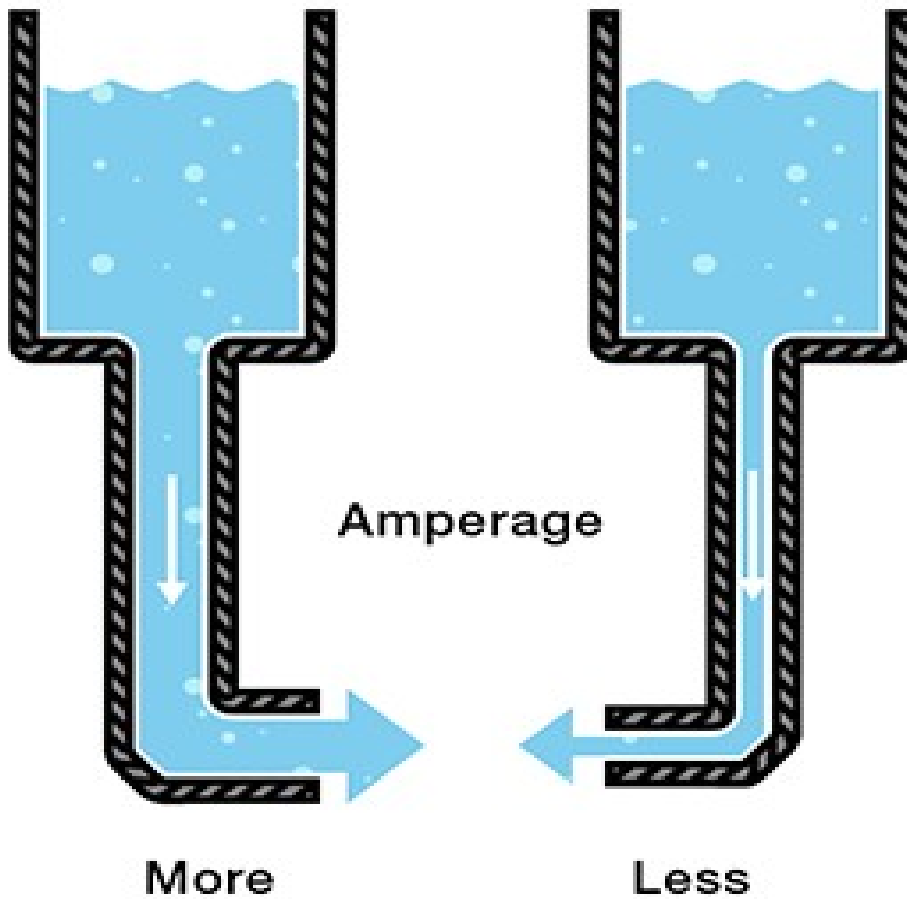
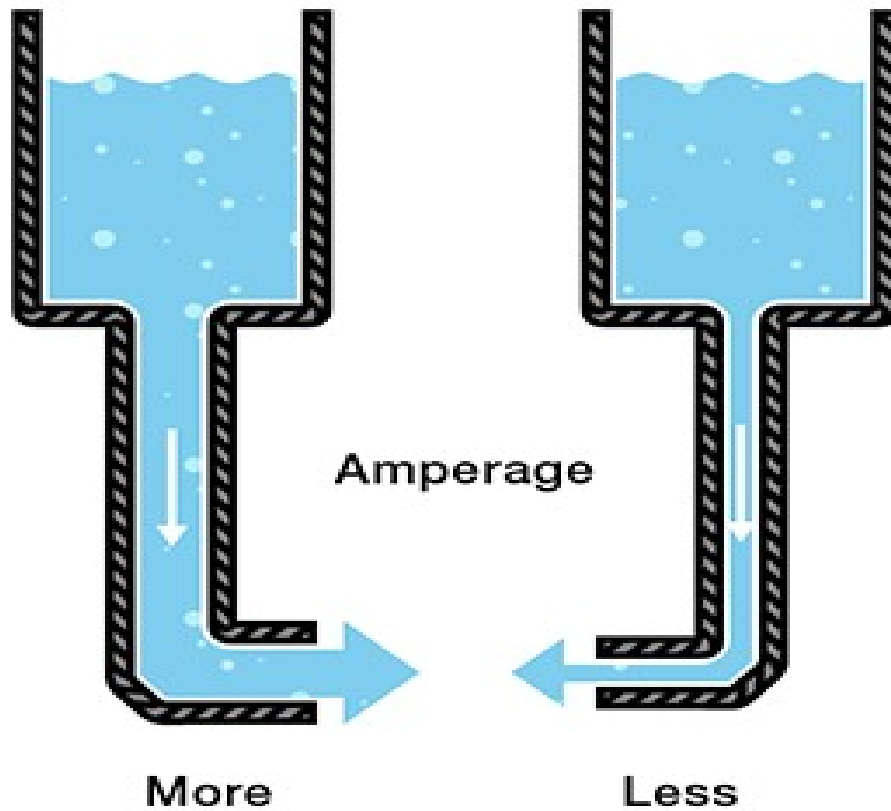


VOLTAJE (V, VOLTIOS) = PRESIÓN
CARGA (C, CULOMBIOS) = AGUA

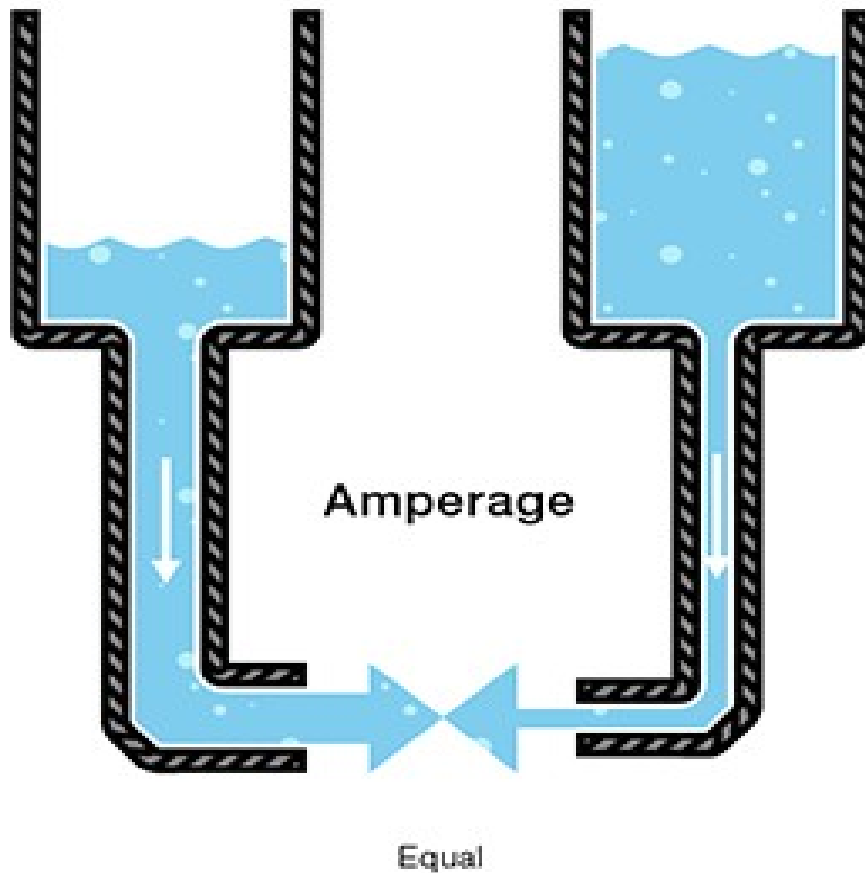




VOLTAJE (V, VOLTIOS) = PRESIÓN
CARGA (C, CULOMBIOS) = AGUA
CORRIENTE (AMPERIOS) = FLUJO



VOLTAJE (V, VOLTIOS) = PRESIÓN
CARGA (C, CULOMBIOS) = AGUA
CORRIENTE (AMPERIOS) = FLUJO
RESISTENCIA (OHMIOS) = DIAMETRO



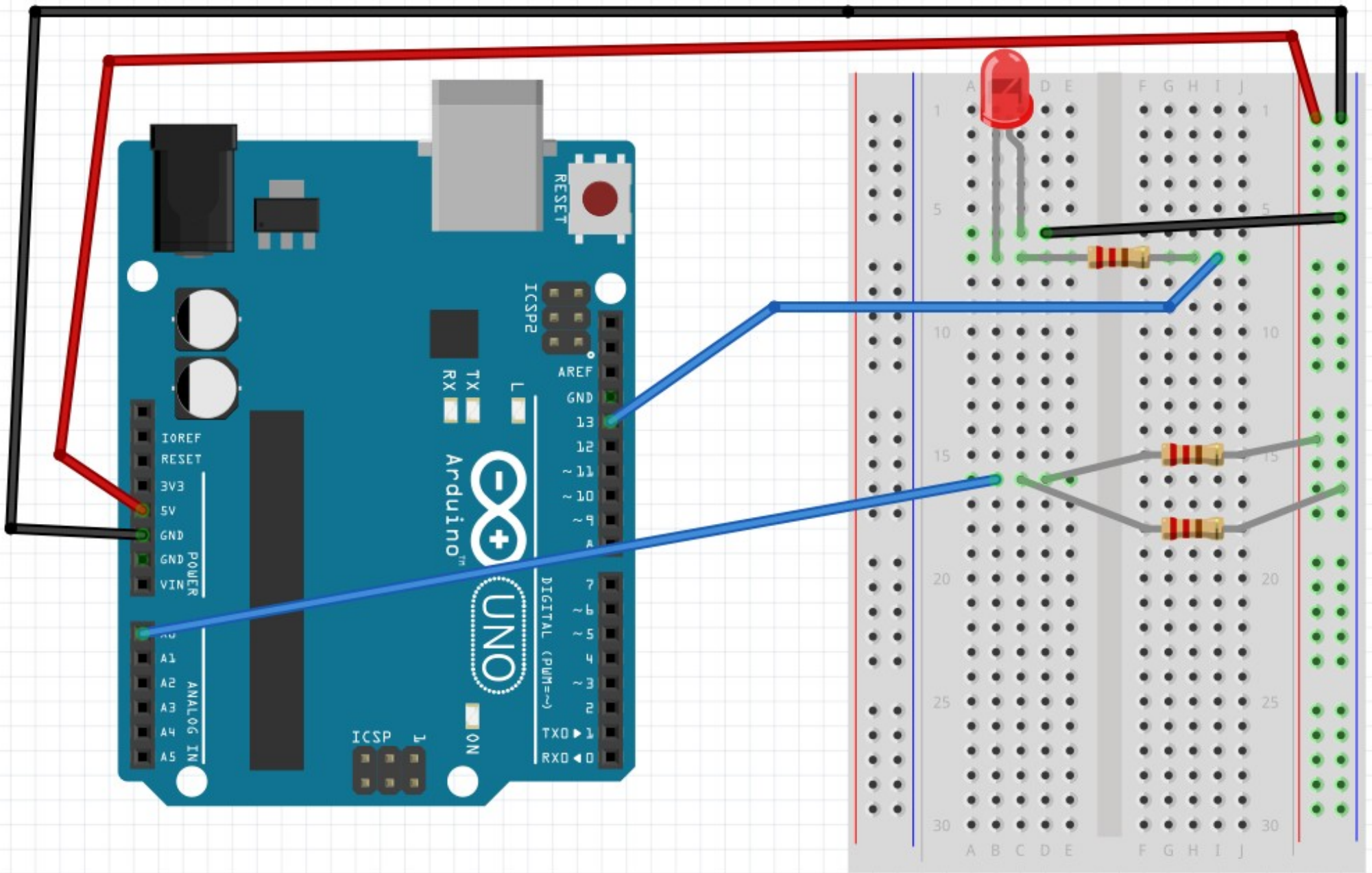
VOLTAJE (V, VOLTIOS) = PRESIÓN
CARGA (C, CULOMBIOS) = AGUA
CORRIENTE (AMPERIOS) = FLUJO
RESISTENCIA (OHMIOS) = DIAMETRO

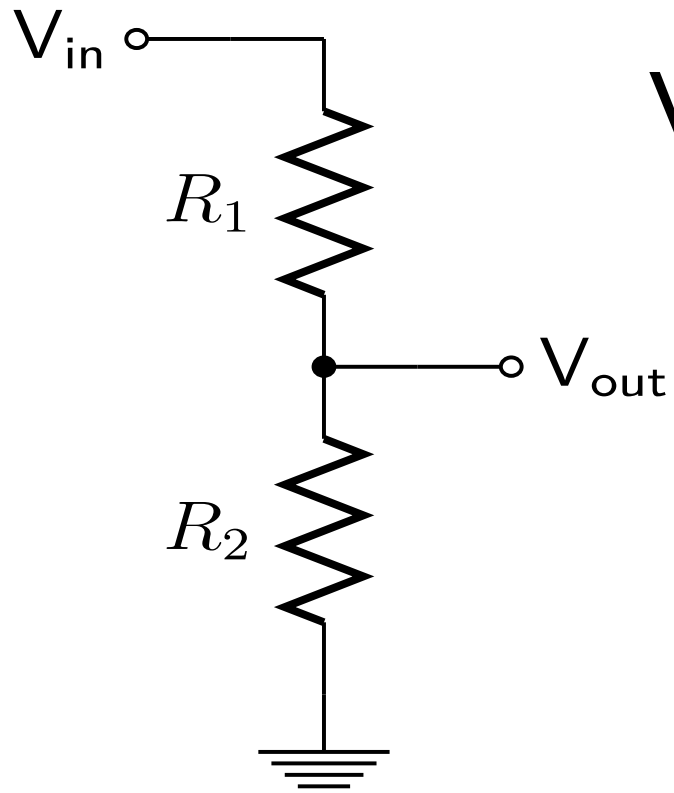
VOLTAJE = INTENSIDAD * RESISTENCIA

$$V=I*R$$

$$I=V/R$$

Ley de Ohm





$$V_{out} = R_2 / (R_1 + R_2)$$

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

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // Convert the analog reading (which goes from 0 - 1023) to a voltage (0 - 5V):
  float voltage = sensorValue * (5.0 / 1023.0);
  // print out the value you read:
  Serial.println(voltage);

  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
  delay(1000);
}
```



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void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
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  float voltage = sensorValue * (5.0 / 1023.0);
  // print out the value you read:
  Serial.println(voltage);
  if(voltage>4)
  {
    digitalWrite(LED_BUILTIN, HIGH);
    //delay(1000);           // wait for a second
  }
  else
  {
    digitalWrite(LED_BUILTIN, LOW);
    //delay(1000);
  }
}
```