**ELECTRONICS NOTES**

Components;

1. PIR – Passive Infra Red Sensor

* Resting phase - 0
* Active phase – 1 results to change in voltage (increase or decrease)

2. Servo SG90 - Motor – it is used for movement

They are used in;

* Robotics

**Components;**

* Brown wire – ground
* Red wire – 5v / vcc
* Orange - signal.

3. HCSR04 – Utrasonic

Speed of sound in air - 343m/s

**Components;**

* Vcc
* Trigger
* Echo
* Ground

The trigger is used to release the sound while the echo is used to listen to the sound.

**Exercise**

**1,000,000 microseconds – 1second.**

**Distance = 0.0343 \* time /2**

**Speed = distance / time.**