

# **ADDITROM SCHOOL**

Motto: the truth giveth light and peace

## **JHS ONE ASSIGNMENT – INTEGRATED SCIENCE**

### **First assignment**

1. (a) You are provided with a compression balance, beaker, measuring cylinder, thin thread, water, and a stone. With the aid of a well labelled diagram describe how to find the density of **a cork**.
- (b) List all the precautions that must be observed to ensure that your measurement is accurate.

### **Second assignment**

2. You are provided with a cuboid which measures 6cm by 5cm by 4cm. When the cuboid was placed on a compression balance the cursor/pointer moved from the 0gram mark 360grams mark.
  - (a) Make a diagram to show the dimension of the cuboid
  - (b) Calculate the volume of the cuboid.
  - (c) Make a diagram to show the measurement of mass of the cuboid on the compression balance.

### **Third assignment**

3. Describe systematically how to find the density of soya bean oil.
4. Mr Amedjro planted to crops which are closely related species. He noticed that pollen grains from one plant fertilized the ovules of the other plant.
  - (a) List four possible factors which allowed the pollen grains from one plant the fertilized the ovules of the other plant.
  - (b) List four possible benefits that Mr Amedjro can obtain from the fruits and seeds that will be harvested from the plant.