

# Title: To measure the mass and volume of a variety of solids and liquids and hence determine their densities (OP 2)

Student Name: \_\_\_\_\_

Other students in Group: \_\_\_\_\_

## Preparation and planning

What is the meant by the mass of an object? \_\_\_\_\_

\_\_\_\_\_

What is meant by the volume of an object? \_\_\_\_\_

\_\_\_\_\_

How does finding the volume of an irregular solid (e.g. a stone) differ from finding the volume of a liquid? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

How might the way you find the volume of an irregular solid differ from the way you find the volume of a regular solid (e.g. a cube?) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Apparatus/resources needed \_\_\_\_\_

\_\_\_\_\_

## Procedure

Labelled Diagram – Finding mass

Labelled Diagram – Finding volume

Outline of method \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Safety Precautions taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Data, Results and Conclusions**

Substance	Mass (g)	Volume (cm <sup>3</sup> )	Mass (g)/Volume (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )

\_\_\_\_\_  
\_\_\_\_\_

General comment/recommendations \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is meant by the density of a substance? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Teacher Name: \_\_\_\_\_ Dates of investigation: \_\_\_\_\_  
Student signature: \_\_\_\_\_