

MATTER

CHAPTER NO.2 SUB: PHYSICS

CHANGING YOUR TOMORROW

LEARNING OUTCOMES

Students will be able to
Measure density of a regular solid.
Define density.
State the unit of density.

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POINTS TO BE COVERED

- Density
- Density of a regular solid

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INTRODUCTION

Mass: The amount of substance contained in a body is known as mass.

Volume: The amount of space that a substance or object occupies or that is enclosed within a container is known as volume.

Density: The density of a substance is its mass per unit volume.

Density of a substance = Mass of the substance / Volume of the substance.

$$D = m/v$$

Density

<https://youtu.be/QXoQbWoliRE>

Unit of density

- Unit of density = Unit of mass/Unit of volume.
- = kg/m^3 .
- Determination of density of a regular solid:
 - 1. First measure the mass of the given regular solid by using a beam balance.
- Now find the volume.
- $D = m/v$.

Vessels for measuring volume

- 1. Measuring Cylinder:
- It is made up of glass/plastic and is graduated in millilitre, with its zero mark at the bottom.



- 2. Measuring beaker:
- It is made up of plastic or glass or metal like aluminium.
- 3. Eureka Can: A eureka can is a glass or polythene or metal beaker with a side opening near its mouth which is known as spout.



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HOME ASSIGNMENT

➤ Exercise: B-1,2,3.

THANKING YOU
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