Date

Mass, Volume, and Density Notes

Definitions:

Matter: anything that has a mass and a volume.

Mass: the amount of matter in an object. The amount of "stuff" is measured in grams.

Volume: the amount of space an object takes up. We use cm³ or mL to measure volume.

The formula to calculate volume for a rectangular prism is:



 $L \times W \times H = cm^3$

For an irregularly shaped object we use a Graduated

Cylinder and water displacement. The volume is found by:

Final reading in mL - the starting reading in mL. Gradu

Graduated cylinder

Density: the ratio of mass to volume. Everything has density; it is how much "stuff" is packed into a given volume. The formula used to find density is:

Density = Mass ÷ Volume (D=M/V)

The unit of measurement is g/cm³.

The density of water is **1.0 g/cm³**.

