MATTER

Anything that has mass and occupies space.

STATES OF MATTER

SOLID	LIQUID	GAS
Particles are held very close to each other	Particles are close but packed loosely compared to solids	Particles are very far apart compared to solids and liquids.
Not much freedom for movement of particles	Particles can move around.	Movement of particles is easy and fast.
Definite volume & shape.	Definite volume but lack definite shape.	Neither definite volume nor definite shape.

VOLUME

Amount of space occupied by a substance.
(length)³
1000cm³ = 1000mL = 1dm³ = 1L

MASS AND WEIGHT

Mass- amount of matter present in substance

Weight- force exerted by *gravity* on an object.

One should be careful in using these terms and not confuse one with the other.

SCIENTIFIC NOTATION

A way of expressing a number which is too large or small written in decimal form.
Represented in the form **N×10^n
NOTE- only a single digit should be placed to the left of the decimal point
In the number 452.9646, we bring all the digits to the left-side of the decimal point to the right side except for the first digit. i.e., 4.529646 × 10^2
eg- 4345.83 = 4.34583 × 10^3
In the number 0.00023, we bring all the digits from the right-side of the decimal point to the left except for the last digit.
eg- 0.00203 = 2.03 × 10^3

By **Enthusia**
cheatography.com/enthusia/

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