

Class-VI

Subject: Physics.

Teacher: Nimrita L-2 Physical Quantities and Measurement.

Date: 3.7.24

Good Morning Children!

This lesson is of Class-VI for the subject of Physics, Chapter-2, Physical Quantities and Measurement of your textbook Concise Physics by Selina Publishers. It is being submitted to you on 3rd July, 2024.

In this lesson, we will study about measurement, choice of unit, basic physical quantity, convention while writing the S.I units.

Measurement:

Measurement is a comparison of an unknown quantity with a known fixed quantity of the same kind.

Choice of unit:

- It should be of convenient size.
- It must be universally accepted.

Basic physical quantities:-

- length • Mass • Time • Temperature.

This set of units is called as standard international units (S.I units)

- **Physical quantity:-** A quantity that can be measured.

	Quantity	S.I unit	symbol
1.)	length	metre	m
2.)	Mass	Kilogram	kg
3.)	Time	second	s
4.)	Temperature	Kelvin	K

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Convention while writing the SI units:

- Symbols used for units are written in small letters. eg: kg, m, s.
- Some units are named after scientists eg: ampere.
- Symbol for a unit named after a scientist is always written with a capital letter. eg: A $\rightarrow$ Ampere.
- The unit and its symbol are never written in plural.
- In words, the unit is written in small letters eg: metre.
- A space is left between the symbols of two units when they are used as product. Ns.
- Negative powers are used for the compound units formed by dividing one unit by the other. eg: ms^{-1} , m/s .

I am ending today's topic. Read page 14-17 of your book.
Thank you!