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CHAPTER 1. (MOTION)(BASED ON NCERT PATTERN)

What are the common System of Units used in measurements

Following are the commonly used System of Units in measurements:

- CGS system
- MKS system
- SI system

Define unit.

Unit is defined as the reference standard used for measurements.

What is the SI Unit?

SI unit is an international system of measurements that are used universally in technical and scientific research to avoid the confusion with the units. Having a standard unit system is important because it helps the entire world to understand the measurements in one set of unit system.

There are several SI units used in physics that are used to express the different quantities. The quantities can be classified into two groups i.e. **base units** and **derived units.**

Following is the table with **base SI units**:

Sl. No.	Name of the Quantity	SI Unit	SI Unit Symbol
1.	Length (l)	Meter	m
2.	Mass (M)	Kilogram	kg

3.	Time (T)	Second	s
4.	Electric current (I)	Ampere	A
5.	Thermodynamic temperature (Θ)	Kelvin	K
6.	Amount of substance (N)	Mole	mol
7.	Luminous intensity (J)	Candela	cd

Derived units:-

The derived units are unlimited as they are formed by different operations on the base units. For derived units, the dimensions are expressed in terms of the dimensions of the base units. The derived units might also be expressed with the combination of base and **derived units**.