

MONTH : NOVEMBER

SESSION : 20

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

CHAPTER NAME : MEASUREMENT

**SUB-TOPIC : INTRODUCTION, MEASUREMENT OF
LENGTH, WEIGHT AND CAPACITY. UNITS AND
CONVERSION**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable learners :

- **To identify the units for measuring mass, length and capacity**
- **To get a clear idea about conversion of units of measurement.**

RE-CAP

1. What is the length of your scale?
2. What is your weight?
3. How much water does your water bottle contain?
4. What is the distance between your house and your school?
5. What is your height?

We have already learned few basic things on measurement in our previous class.

Measurement

LENGTH

**STANDARD UNIT IS
METRE**

**MASS
WEIGHT**

**STANDARD UNIT IS
GRAM**

**CAPACITY
VOLUME**

**STANDARD UNIT IS
LITRE**

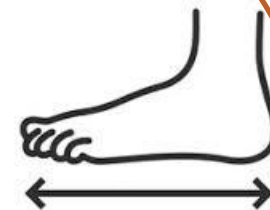
MEASUREMENT OF LENGTH

Height , length, breadth etc. are few words which denotes distance of any object.

However we use different units to measure different length.

Ex: we use cm to measure very small length and km to measure long length or distance.

Different tools are used to measure length are:



These are nonstandard units of measuring length

MEASUREMENT OF MASS

Milligram, gram and kilogram etc are few word used to denote the weight of an object.

We use milligram and gram to measure less quantity whereas kilogram is used to measure heavy objects.

Different tools to measure mass -

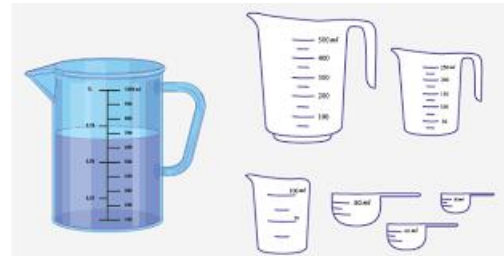
$$1 \text{ kg} = 1000 \text{ gram.}$$



MEASUREMENT OF CAPACITY

Millilitre, litre and kilo litre are few words which denote the capacity or volume of an object.

Different tools to measure mass -



1 litre = 1000 ml.

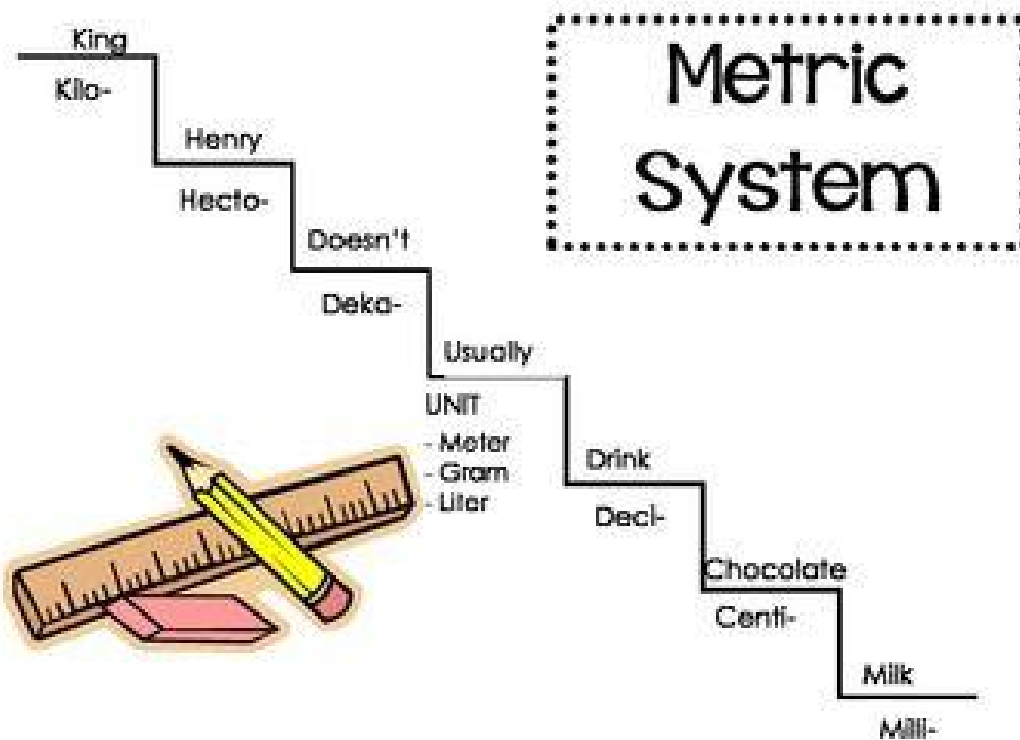


MEASUREMENT UNITS



Units of Length		Units of mass		Units of capacity	
Millimetre (mm)	$\frac{1}{1000}$ of a metre	Milligram (mg)	$\frac{1}{1000}$ of a gram	Millilitre (mL)	$\frac{1}{1000}$ of a litre
Centimetre (cm)	$\frac{1}{100}$ of a metre	Centigram (cg)	$\frac{1}{100}$ of a gram	Centilitre (cL)	$\frac{1}{100}$ of a litre
Decimetre (dm)	$\frac{1}{10}$ of a metre	Decigram (dg)	$\frac{1}{10}$ of a gram	Decilitre (dL)	$\frac{1}{10}$ of a litre
A metre (m)	Standard unit	A gram (g)	Standard unit	A litre (L)	Standard unit
Decametre (dam)	10 metres	Decagram (dag)	10 grams	Decalitre (daL)	10 litres
Hectometre (hm)	100 metres	Hectogram (hg)	100 grams	Hectolitre (hL)	100 litres
Kilometre (km)	1000 metres	Kilogram (kg)	1000 grams	Kilolitre (kL)	1000 litres

ACTIVITY





Use your creativity to make a metric staircase using half a chart paper.



Learning Outcomes

Students are able:

- To identify the units for measuring mass, length and capacity.
- To get a clear idea about conversion of units of measurement.

THANKING YOU
ODM EDUCATIONAL GROUP