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Prepared on : _____

Subject: Science
L-9 Measurement

I. Keywords

1. Measure
2. Volume
3. Temperature
4. Length
5. Weight
6. Unit
7. Handspan
8. Cubit
9. Fathom
10. Thermometer
11. Celsius
12. Fahrenheit
13. Instruments
14. Measuring cylinder
15. Conical flask

II. Pre activity:

Measure any five objects in your classroom using a non-standard unit of measurement.

III. Short answer questions.

Write the bigger measurement units for the following. Show the relationship between bigger and smaller units.

Measurement	Smaller units	Bigger unit	Relationship
Length	Centimeter	Meters	1m= 100cm
Mass	Gram	Kilogram	1kg= 1000g
Volume	Millilitre	Litre	1L= 1000ml
Time	Minute	Hours	1hour= 60minutes

IV. Long answer questions.

1. What is a thermometer? Name its different types with uses.

Ans. The device used to measure temperature is known as a thermometer.

We use different types of thermometers for other purposes.

- Our body temperature is measured using the clinical thermometer.
- The maximum and minimum temperatures in a day are measured using Six's thermometer.

2. How are hours, minutes, and seconds related?

Ans. 1 hour is equal to 60 minutes. 1 minute is equal to 60 seconds

$$1\text{hour} = 60\text{ minutes} \quad 1\text{ minute} = 60\text{ seconds}$$

3. How can we tell the accurate measure of a fever?

Ans. We can tell an accurate measure of a fever using a thermometer.

4. Can we buy things without measuring? Explain with examples.

Ans.

- We should not buy things without measuring as without measurement we cannot get a clear idea about the accuracy of something.
- For example, measuring the size of our feet to buy shoes or measuring our waist size to buy a pair of jeans.

5. Describe the process of measuring the volume of an unmeasured container.

Ans.

- The volume of any container can be measured by pouring liquid into it and then transferring the same liquid to a measuring cylinder.
- The markup to which the liquid fills up is the volume of the container.
- The common units for measuring volume are liters (l), milliliters (ml), and cubic centimeters (cc).

V. HOTS

1. If you had to buy a sack full of 100 wooden sticks, which method would you choose:-

- a. By measuring the length of the wooden sticks
- b. By measuring the mass of the sack containing wooden sticks.

Ans. b. By measuring the mass of the sack containing wooden sticks.

2. What process would you adopt if these sticks were cut into very small-sized blocks?

Ans. By measuring the mass of the sack containing small-sized blocks.

VI. Post activity: Write the units to measure the following:

1. Fruits
2. Water
3. Bundle of newspaper
4. Body temperature
5. Maximum temperature of a day
6. Milk

Subject Teacher

H.O.D.

Coordinator

Principal