

## Lecture Sheet: 03 Science (Chapter-07: The Earth and Gravitation) Class: VIII

## Mass:

Mass of an object refers to the amount of material present in an object.

✓ The mass of the objects depends on the number and kind of atoms and the bonds by which the object is formed.

Ans:

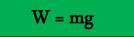
- $\checkmark$  Mass of an object does not depend on the location.
- $\checkmark$  The international unit of mass is kilogram (kg).
- $\checkmark$  General balance is used to measure the mass of an object.
- $\checkmark$  One tone is 1000 kg.

If a 1200 kg truck is loaded by 5750 kg onion, what will be the mass of the truck in ton now?

## Weight:

The force by which the earth attracts an object to its center is called its weight.

- $\checkmark$  The weight of the objects depends on mass and acceleration due to gravity.
- ✓ Weight of an object depends on the location.
- $\checkmark$  The international unit of weight is newton (N).
- $\checkmark$  Spring balance is used to measure the mass of an object.
- ✓ Weight of an object at the surface of the moon is  $\frac{1}{6}$  compared to that at the surface of the earth.
- ✓ Weight (W) = Mass (m) × Acceleration due to gravity (g).



If your mass is 60 kg, what will be your weight considering $g = 9.8 \text{ms}^{-2}$		Ans:	
	MAN C		

Q. If the mass of a dog at the surface of the earth is 25 kg, what will be its weight at the surface of the moon?

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Q. Write down five differences between mass and weight.

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Mass	Weight