

1100
24/6/21

Home assignment

Q. Define mass

The mass of a body is the quantity of matter contained in it.

Q. Convert 80 gm to kg

$$\begin{aligned} 80 \text{ gm} &= 1/1000 \text{ kg} \\ 1 \text{ gm} &= 1/1000 \times 80 \text{ gm} \\ &= 80000 \text{ kg} \end{aligned} \quad \begin{aligned} 8 \text{ gm} &= 1 \text{ g} = 1000 \end{aligned}$$

Q. explain the relation between gram, kilogram and pound.

$$\begin{aligned} 1 \text{ g} &= 1/1000 \text{ kg} = 10^{-3} \text{ kg} \\ 1 \text{ b} &= 453.59 \text{ g} \end{aligned}$$

As 1000g or 1kg is 2.2 heavier than pounds. we can find that

Q. 16 of

Saathi

453.5 g or 0.4535 kg.

Q. 80 gm to kg

$$1 \text{ gm} = 1/1000 \text{ kg}$$

$$80 \text{ gm} = 80 \text{ gm} \times 1/1000 \text{ kg} \\ = 0.08 \text{ kg}.$$

Q. Explain the process in which you can measure the mass of a body using beam balance.

- First beam balance is held up.
- The object which is to be measured is placed on the left pan.
- The standard weights is to be placed on the right pan.
- weights are placed in such a way the beam is again in horizontal.
- standard weights gives the mass of the given body.

Q. Describe the parts of electronic balance

Electronic balance :-

- The structure : It is the load where the object transfer to load cell.
- Load cell : It helps transfer load to the electronic signals.
- The signal conditioner : It is the part which process the signals to show the mass.

Q. What are standard weights, Give some examples.

- Standard weights are the weights kept to measure the mass of an object.
- They are available in 20g, 10g, 5g, 10g, 2kg, etc.

I N D E X

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STD VI DIV./SEC A SUBJECT Physics

S No.	Date	Title	Page No.	Teacher's Sign/Remark
01.	16.4.21	Introduction Matter	1-2	
02.	22.4.21	MATTER → Atomic, molecule	3-5	
03	28.4.21	Characteristics of particle		
4	29.4.21	H/W/ Ques	7	
5	30.5.21	Properties	8	
6	12.5.21	Ques/Ans and viscosity	9	
7		viscosity and Surface tension	10-28	
8	13.5.21	ch-2 Introduction	29	
9	23.6.21	ch-2 measurement	30-32	
10	23.6.21	Home assignment	33-34	
11	24.6.21	ch-2. Meas	35-36	
12	24.6.21	ch-2 Home work	37-39	