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SUBJECT - MATHEMATICS

\section*{CLASS - III

## CLASS - III TOPIC - WEIGHT

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## PDF CHAPTER LINK



Work is Worship

## LEARNING OBJECTIVES

- Identification of objects which are sold by measuring weight.
- Comparison between heavy and light objects.
- Recognition of the basic unit of measuring weight.
- Conversion of the units of weight - from kilogram to gram.
- Addition and Subtraction of the weights with grouping.
- Use of the basic concepts of weight in day to day life.
- Application of the concept of weight in solving word problems.


## EXAMPLE OF WIEGHT IN REAL LIFE

## W E I G HT




An elephant is heavy.


A mouse is light.


HON TO KNOW WHICH IS HEAVIER?

The one at the top is light while the one at the bottom is heavy.


# What is uveight? 

 Weight is a measure of how heavy something is.

How do we buy vegetables?


We buy things according to our need


Big bag of rice


Pulses

We buy things in different quantity


We should have idea of weight of things


We should to know how much we need

## We measure the WEIGHT of..... <br> nomin




## And to measure the quantity of these things we need to measure their WEIGHT

TO MEASURE WEIGHT, WE USE
> NON-STANDARD UNITS(using things like cup, spoon, stones, beads, cubes, marbles, etc)
> STANDARD UNITS(Kilogram and Gram)

## Non-standard units



Weight of the banana is 3 stones.


Weight of the banana is 4 marbles.


Weight of the banana is 2 blocks.

A non-standard unit may vary from person to person or with the object with which it is weighed.


Non-standard units do not give the exact weight.

## So we use the STANDARD UNITS of weight...

To weigh things we use different types of balances.


## UNITS OF MEASURMENT

The most common units of measurement for weight are grams and kilograms.


## How Many

## Grams

## In A

Kilograms


1 kilogram = 1000 grams

## CONVERSION OF KILOGRAMS 'kg' INTO GRAMS 'g' STEPS TO CONVERT:-

STEP 1 Multiply the given number with 1000

STEP 2 Add three zero after the given number in the result part

STEP 3 Replace kg by $g$

# AUDIO -VISUAL <br> EXPLANATION OF THE CONVERSION USING SOME EXAMPLES 

## Conversion into grams

```
2 kg 15g=(2\times1000)g+15g
=2000 g + 15g
= 2015 g
```



- 1 Kilogram = 1000 gram.
- The standard unit of weight is kilogram.
- Kilogram can be written as kg.
- Gram can be written as $g$.
- We multiply the number of kilograms by 1000 to convert kilograms into grams.


## ADDITION AND SUBTRACTION OF WEIGHTS

- Separate the kg and g in two columns and then do the addition or subtraction as given in the question.
- Addition and subtraction in grams and kilograms is done in the similar way as in the case of ordinary numbers.
- In the result part mention kg in the kilogram part and g in the gram part.

Addition of Kilograms and Grams

## Addition of Kilograms and Grams

Add 5 kg 832 g and 3 kg 498 g .

| $k g$ | $g$ |
| ---: | ---: |
| 8 | 11 |
| 8 | 378 |
| +1 | 426 |
| 9 | 804 |

: Sum $=8 \mathrm{~kg} 378 \mathrm{~g}+1 \mathrm{~kg} 426 \mathrm{~g}=9 \mathrm{~kg} 804 \mathrm{~g}$

$\therefore$ Sum $=5 \mathrm{~kg} 832+3 \mathrm{~kg} 498 \mathrm{~g}=9 \mathrm{~kg} \mathrm{330g}$

Let us subtract 3 kilograms 93 grams from 9 kilograms 872 grams.


So, the difference is 6 kg 779 g

Subtract 1 kg 802 g from 4 kg 325 g .


So, on subtracting 1 kg 802 grams from 4 kg 325 grams we get 2 kg 523 grams.

Q- Jason purchased 7 kg 200 g of sugar, 9 kg 395 g of rice. What is the total weight which Jason carried?
ANS- Weight of sugar Jason purchased $=7 \mathrm{~kg} 200 \mathrm{~g}$
Weight of rice he purchased $=9 \mathrm{~kg} \mathrm{395} \mathrm{g}$
Total weight he carried $=7 \mathrm{~kg} 200 \mathrm{~g}+9 \mathrm{~kg} 395 \mathrm{~g}$

| kg | g |
| :---: | :---: |
| 9 | 200 |
| $+\quad 7$ | 395 |
| 16 kg | 595 g |

Thus, Jason carried 16 kg 595 g in all.

Q- Father bought 18 kg 750 g of fruits (mangoes and apples). He had 6 kg 320 g of mangoes. What is the weight of apples?

ANS- Total weight of fruits father bought $=10 \mathrm{~kg} 750 \mathrm{~g}$ Weight of mangoes $=6 \mathrm{~kg} 320 \mathrm{~g}$ Weight of apples $=10 \mathrm{~kg} 750 \mathrm{~g}-6 \mathrm{~kg} 860 \mathrm{~g}$

| kg | g |
| :---: | :---: |
| 18 | 750 |
| - | 6 |
| 12 kg | 320 |

Thus, father bought 4 kg 430 g apples.

## ACTIVITY

## (through Art-Integration)



## So here we will learn how to make a home made Physical Balance.

STEP 1 : Take a hanger.
STEP 2 : On the two ends attach two binder clips.
STEP 3 : On each clip attach thread.
STEP 4 : Attach two thermocol bowls at the end of the threads on both the sides.
STEP 5 : Then we can measure the weight of the objects.

## VALUE BASED QUESTIONS

Rohan and his father went to a market to buy some books and copies. Rohan saw an old lady carrying two bags of weight 6 kg 300 g . It was difficult for the lady to carry the bags all alone. Rohan seeing this carried one bag for her which weighed 3 kg 110 g . They reached the old lady's house and Rohan kept the bag in her house. She was very happy and blessed Rohan.

Q1 - Find the weight of the other bag.

Q2 - What values does Rohan exhibit here?


## SAMPLE QUESTION PAPER

## DAV PUBLIC SCHOOL RAJABAGICHA

## SUB- MATH

CLASS- III

## TIME- 30 mints

A. Fill in the blanks:-

$$
[1 \times 1=1]
$$

1. 2 kilogram $=$ $\qquad$ grams.
B. Do as directed:-
2. Arrange in column and add the following : 23 kg 007 g and 9 kg 150 g
C. Answer the following questions:-
3. Mr. Rahul bought $8 \mathrm{~kg} \mathrm{350g}$ apples. He found that 1 kg 240 g of apples were unripe. Find the weight of ripe apples.
D. Answer the following:-
[4×1=4]
Anuj went to market to buy vegetables. There he saw an old man carrying two bags of vegetables weighing 6 kg 500 g . Anuj wanted to help the old man so he took one bag from him. It weighed 2 kg 750 g . Anuj accompanied the old man to his house.
4. Find the weight of the other bag the old man was carrying.
5. How you offer help to old people?

## MARKING SCHEME



## SUMMARY

- Weight is a measure of mass. It shows the heaviness of an object.
- We measure the weight of an object or our own weight in grams or kilograms.
- Kilograms and grams are the basic units of measurement of weight.
- The standard unit of weight is 'kilogram'.
- Heavy items are weighed in kilograms
- Light items are weighed in grams.
- Gram is denoted as ' $g$ '.
- Kilogram is denoted as 'kg'.
- Different objects having the same weight can be of different sizes and shapes.
- $1 \mathrm{~kg}=1000 \mathrm{~g}$
- Half $(1 / 2) \mathrm{kg}=500 \mathrm{~g}$
- A Physical Balance or Digital Balance is used to measure the weight of objects.


