





SUBJECT - MATHEMATICS CLASS – III TOPIC – WEIGHT





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













something is.





How do we buy vegetables?



We buy things according to our need



We buy things in different quantity



We should have idea of weight of things



We should to know how much we

need

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We measure the WEIGHT of....





Sugar

Work is Worship

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





 NON-STANDARD UNITS(using things like cup, spoon, stones, beads, cubes, marbles, etc)
STANDARD UNITS(Kilogram and Gram)





So we use the STANDARD UNITS of weight...





UNITS OF MEASURMENT

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

A gram is very light. These items weigh approximately 1 gram.

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Conversion of Units of Mass or Weight

Conversion into grams

- 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.

∴ Sum = 8 kg 378 g + 1 kg 426 g = 9kg 804 g

kg

g

11

Subtraction of Kilograms and Grams

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

So, the difference is 6 kg 779 g

Subtraction of Kilograms and Grams

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.

WORD PROBLEMS

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<u>Q-</u> Jason purchased 7 kg 200 g of sugar, 9 kg 395 g of rice. What is the total weight which Jason carried?

<u>ANS-</u> Weight of sugar Jason purchased = 7 kg 200 g Weight of rice he purchased = 9 kg 395 g Total weight he carried = 7 kg 200 g + 9 kg 395 g

Thus, Jason carried 16kg 595g 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 kg 750 gWeight of mangoes = 6 kg 320 gWeight of apples = 10kg 750g - 6kg 860gkgg18750

10	150
 6	320
12 kg	430 g

Thus, father bought 4kg 430g 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 6kg 300g. It was difficult for the lady to carry the bags all alone. Rohan seeing this carried one bag for her which weighed 3kg 110g. 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	F.M- 10		
CLASS- III	TIME- 30 mints		
A. Fill in the blanks:-	[1x1=1]		
1. $2 \text{ kilogram} = grams.$			
B. Do as directed:-	[2x1=2]		
1. Arrange in column and add the following :			
23 kg 007 g and 9 kg 150 g			
C. Answer the following questions:-	[3x1=3]		
1. Mr. Rahul bought 8kg 350g apples. He found that 1 kg 240 g of apples were unripe. Find th	e weight of ripe		
apples.			
D. Answer the following:-	[4x1=4]		
Anuj went to market to buy vegetables. There he saw an old man carrying two bags of vegetables weighing 6kg			
500g. Anuj wanted to help the old man so he took one bag from him. It weighed 2kg 750g. Anu	ij accompanied the		
old man to his house.			
1. Find the weight of the other bag the old man was carrying.			

Work is Worship

2. How you offer help to old people?

MARKING SCHEME

QUESTION NUMBER	ANSWER	MARKS ALLOTED
A. 1)	2000g	1 mark
B. 1)	32 kg 157 g	arranging in columns – 1 mark answer – 1 mark
C. 1)	7 kg 110 g	statement – 1 mark operation – 0.5 mark answer – 1.5 marks (arranging in column- 0.5 marks and answer – 1mark)
D. 1)	3kg 750g	statement – 1 mark operation – 0.5mark answer – 1.5 marks
2)	any valid answer	1 mark Work is Worshin

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 kg = 1000 g
- Half $(1/_2)$ kg = 500g
- A Physical Balance or Digital Balance is used to measure the weight of objects.

