



Students will be able to estimate & verify weights of everyday objects (in terms of less than, equal to, or greater than 1kg)

⌚ 40- 50 min

⏪ PRE REQUISITES:

G3.72 Know how to measure weights in kilogram using a weighing scale



TLM



Weighing balance

Water bottle

New chalk box

Big stone/brick piece

A wooden cube



MISCONCEPTIONS

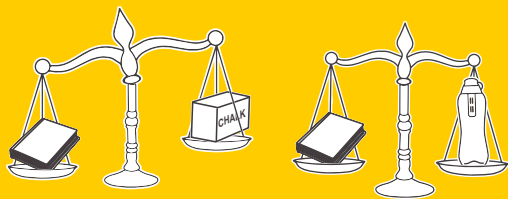
Students might have a misconception that larger objects are heavier



KEY VOCABULARY



PLAY



Comparing objects with 1 Kg weight



Place a filled water bottle, new chalk box, big stone/brick piece, & a wooden cube on the table



Ask the students to guess which objects are heavier than a book



Ask 1 student to use a weighing scale and place a book in one pan of the weighing balance & a water bottle on the other



As they place the objects on the weighing scale, ask rest of the students to guess which pan will go up



QUESTION

What do you notice? Which side is heavier? How do you know?



Tell the students that lighter pan is lifted up. Do the activity with other objects & ask students if their estimates were correct



TEACHER'S NOTE

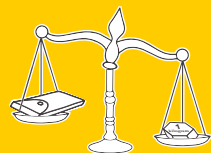
Help students in weighing the objects. Ensure that they hold the balance correctly



Electronic weighing scale can be used, if available



PROCESS



Pencil box



Pumpkin

Comparing & verifying weights



Tell that 1Kg weight bar can be used to compare weight of other objects & which weigh less than, more than or equal to it



Place a pencil box on a weighing balance & weigh it against a 1Kg weight bar



Explain that the pencil box pan is lifted up because it is less than 1Kg



Make a table on the black board as shown. Write pencil box in the column for "objects less than 1Kg"



Tell the students that if an object is equal to 1Kg, the two pans will be balanced



Explain to the students that many grocery items are packed in 1 Kg or half Kg packets



QUESTION

Do you know of some grocery items that are available in packets heavier than 1Kg?



PRACTICE



4 L



1 L

Draw the question on the black board & ask the students to solve



Help the students solve question 3 from the worksheet. Ask the students to write which fruit is more than 1Kg in weight & which one is less than 1Kg



4 L



1 L



3 L



10 L



Help the students solve question 5 from the worksheet. Narrate the questions & ask the students to tell which sentences are incorrect

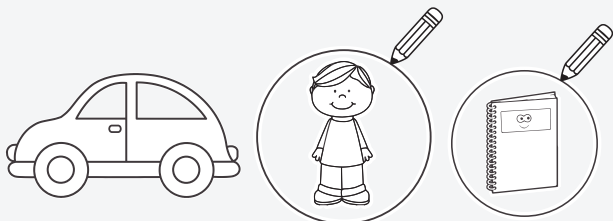


Explain that our estimates can be incorrect if we only consider the size of objects. Explain that bread loaf is lighter than 1Kg weight even though a bread loaf is bigger in size

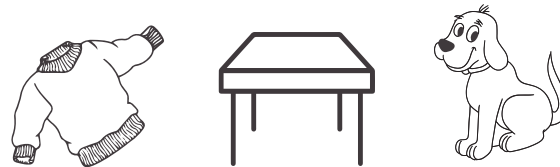




- ① SOLVED EXAMPLE : Which of these is more than 1Kg in weight



- ② Which of these is less than 1Kg in weight



- ③ Which of these fruits is more than 1Kg in weight & which one is less than 1Kg



More than 1 Kg	Less than 1 Kg

- ④ Put <, > sign to show if the objects are less than 1Kg or more than 1Kg in weight

Object	< or >	
Oil Tin 		1Kg
Bouquet 		1Kg
Tea 		1Kg

- ⑤ Which of these is correct



- ⑥ Fill in the blanks using 'more than' or 'less than':

- a. An elephant can eat _____ 1Kg food in one day
- b. A mouse can eat _____ 1Kg food in one day



Harry bought 1 kg of mangoes & 1 kg of custard apple. How can he check if both the items have the same weight ?