



## Geometry &amp; Measurement Concepts - NCERT Chapter 8: Who is Heavier?

Students will be able to understand the standard measure of 'kilogram' and use a weighing scale to measure weight of familiar objects

🕒 40- 50 min

⏪ PRE REQUISITES:

G2. 57 Know how to compare objects by weight

✓ TLM



Weighing balance  
1 Kg weight bar

! MISCONCEPTIONS

None



KEY VOCABULARY

None



## PLAY



1 Kg weight bar



Weight bar can be used to weigh objects

Learning how much is 1 Kg

○ Ask the students if they accompany their parents to buy vegetables

○ Remind students that vegetable sellers weigh the vegetables before selling

❓ QUESTION

What do vegetable sellers use to weigh the vegetables. Describe what it looks like

○ Show a weighing balance & a 1Kg weight bar

○ Explain that vegetable sellers use a weighing scale & some weighing bars to weigh the vegetables

○ Divide them in groups of 4 and each should hold the 1kg bar & select one thing in the classroom that might weigh as much

○ Ask each group to measure the weight of the selected object using a weighing balance



## PROCESS



3 books = 1Kg



pencil box is less than 1Kg

Use a weighing scale to measure weights in Kilograms

○ Show a 1Kg weight bar & tell the students that vegetables, fruits, rice, flour etc are weighed in Kilograms

○ Place the bar on the weighing balance & place 2-3 books on the other pan such that the two sides are balanced

○ Explain that balanced pans represent equal weight in both the pans

○ Tell that the objects that balance with 1Kg weight bar weigh 1Kg

○ Point to the books & tell that the books weigh approximately 1 Kg

○ Remove the books & place a pencil box. Point out that the side with the pencil box is lighter than the side with the 1Kg bar

❓ QUESTION: Have you seen any other equipment being used for measuring weights? What does it look like?

👉 TEACHER'S NOTE: If possible, show pictures of electronic weighing balance & explain its working



## PRACTICE



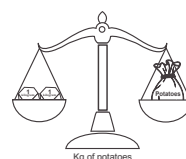
Help students solve the questions by looking at the pictures of objects

○ Help the students solve question 2 from the worksheet. Ask the students to look at the pictures & circle the items measured in kilogram



○ Emphasize that weight is different from size. We measure cloth, our height, our shoe size in metres or centimeters but measure vegetables & some grocery items in kilograms

○ Help the students solve question 4a from the worksheet. Tell the students to look at the picture & write weights of the potatoes in the bag

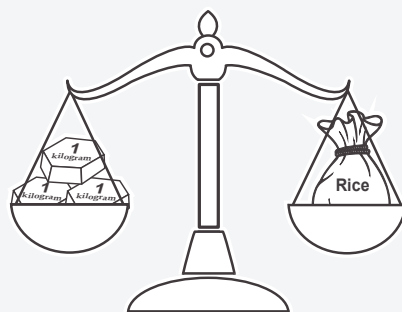




## G3.72 | MEASURE KILOGRAM WITH THE USE OF A WEIGHING SCALE

### WORKSHEET: GEOMETRY & MEASUREMENT CONCEPTS - NCERT CHAPTER 8: WHO IS HEAVIER?

- ① SOLVED EXAMPLE : Look at the reading or weight on the balance & write how much the object weighs:



3 Kg of Rice



- ② Look at the pictures & circle the items measured in kilogram:



- ③ Look at the pictures & write weights of the potatoes in the bag

3a.



\_\_\_\_\_ Kg of potatoes

3b.



Less than 1Kg OR  
More than 1Kg OR  
equal to 1Kg)

\_\_\_\_\_ potatoes

- ④ Circle the objects that weigh more than 1Kg



- Make a list of vegetables bought at your home. Write how much of each vegetable is bought at one time

| Name of Thing | How much bought |
|---------------|-----------------|
|               |                 |
|               |                 |
|               |                 |
|               |                 |