Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 1	
Unit 5: Measurement	**Topic:** Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Use standard metric units to measure the mass of different objects.

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook, Bag, Weighing balance

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students: Do you know how we can measure the length of the table, the classroom and a book?
- Take their responses and appreciate if same one gives the right answer.

Teaching & Learning Activities: 25mins

- Tell them that today we will learn the standard metric units that are used to measure the length of objects. Place a bag on the table. Instruct students to look at the bag. Ask them: How can we measure the mass of the bag? Ask them: Which unit is used to measure the mass of the bag?
- Take their responses and tell them that to measure the mass of the bag, we use the unit of mass "kilogram". Tell them to measure the mass of the bag, we use the weighing balance and weighing bars.
- Now place the weighing balance on the table and measure the mass of the bag. Ask them to observe the measurement. Now call students one by one and ask them to measure the mass of their bags. Take his/her response and observe their measurements.
- Note the reading of each of the measurements on the board. Appreciate them for their correct measurements.

Review: 3mins

Recall the lesson by telling students that kilogram is the standard unit of measurement that is used to measure heavy objects.

Evaluation: 5mins

To check the understanding of students, ask them to tell which unit is used to measure the mass of the watermelon. Take their responses and appreciate them for their correct answer.

Homework: 2mins

Revise the classwork.

Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 2	
Unit 5: Measurement	**Topic:** Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Use standard metric units to measure the mass of different objects.

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Point towards the table of the classroom and ask them to tell which unit is used to measure the mass of the table.
- Take their responses that must be kilograms. Appreciate them for their correct response.

Teaching & Learning Activities: 25mins

- Divide students into groups according to how many balance scales you have available for each group.
- Show them how to use balance scale and give them five minutes to explore.
- Instruct them to weigh various objects such as geometry box, textbook.
- Tell them there are two units of weighing mass of objects. Which we use in daily life for example Kg and g(grams).
- Tell them Kg (kilogram) is used to measure the mass of heavy objects. While gram is used to measure mass of light objects.
- Instruct them to observe the objects that are measured in kilograms, grams and milligrams. Tell them that the mass of the bag is measured in kilograms and the mass of the lunch box is measured in grams.

Review: 3mins

Revise the lesson by telling students that gram is used to measure the mass of the light objects and milligram is the unit to measure the mass of very light objects.

Evaluation: 5mins

To check the understanding of students, ask them to solve Q1 of Exercise 5.3.

Homework: 2mins

Solve the given worksheet.

Worksheet

Name: _____ **Date:** _____

Q1. Measuring the weight of each object.

1) 

_____ g

2) 

_____ kg

3) 

_____ g

4) 

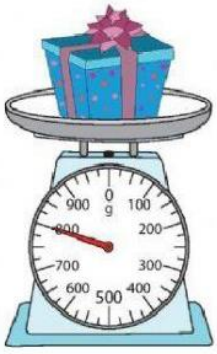
_____ kg

5) 

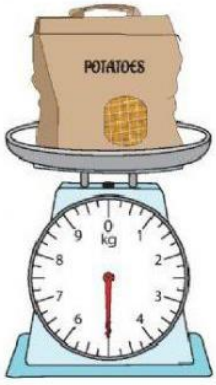
_____ g

6) 

_____ kg

7) 

_____ g

8) 

_____ kg

9) 

_____ g

Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 3	
Unit 5: Measurement	**Topic:** Conversion of Units of Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Convert larger to smaller metric units (kilograms into grams).

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook, Flash cards of objects of different mass, Worksheet

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students about their homework. Show flash cards of different objects to students and ask them to tell which object is measured in kilograms, which are measured in grams and which one is measured in milligrams?

Teaching & Learning Activities: 25mins

- Write the statement of the example: "Amar bought apples of mass 4.5 kg. What is the mass of the apples in grams?" Explain that we want to measure the mass of the apples in grams.
- Ask students: How many grams are in one kilogram? Take their responses and tell them that there are 1000 grams in one kilogram.
- Tell them that to convert kilograms to grams, we have to multiply the number of kilograms by 1000. So, to convert 4.5 kg to gram, we have to multiply 4.5 by 1000.
- 4.5 Kg = 4.5 x 1000g = 45/10 x 1000g =4500g so, the mass of apples is 4500 grams.

Review: 3mins

Sum up the lesson by explaining to students that when we convert a larger unit to a smaller unit, we always multiply. When we convert kilograms to grams, we multiply the number of kilograms by 1000.

Evaluation: 5mins

To evaluate the students understanding, ask them to solve Q2 (i - iv) of Exercise 5.3. Roam around the class, check their work and guide them if required.

Homework: 2mins

Solve Q2 (v - viii) of Exercise 5.3.

Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 4	
Unit 5: Measurement	**Topic:** Conversion of Units of Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Convert larger to smaller metric units (grams into milligrams).

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students: How can we convert a larger unit to a smaller unit? How many meters are there in one kilometer?
- Take their responses and appreciate them for their correct response.

Teaching & Learning Activities: 25mins

- Write the statement on the board. Amir buys a jar of jam. The mass of jam in jar is 65g. What will be the mass of jam in milligram?
- Instruct the students to read the example and tell what is given and what we have to find.
- Tell students 1gram is equal to 1000mg. So, to find the mass of jam in milligrams, we will multiply 65 by 1000.
  65g = 65 x 1000mg = 65000mg so, the mass of jam is 65000mg.

Review: 3mins

Revise the lesson and tell when we convert grams to milligrams, we multiply the number of grams by 1000.

Evaluation: 5mins

To assess the students understanding, ask them to solve Q3 (i - iv) of Exercise 5.3. Check their work and appreciate them.

Homework: 2mins

Solve Q3 (v - viii) of Exercise 5.3 in their notebooks.

Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 5	
Unit 5: Measurement	**Topic:** Addition and Subtraction of Units of Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Add and subtract measures of mass in same units.

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students about their homework. Ask them: How many grams are there in one kilogram? How many milligrams are in there one gram?
- Take their responses and appreciate them for their correct response.

Teaching & Learning Activities: 25mins

- Tell students today they are going to add measure mass in same units.
- Make groups of students. Ask them to collect various objects like toys, school bags, lunch box, geometry boxes etc.
- Now instruct each group to come forward and measure their objects by using balance, placed on the table. Also tell them to note the reading of their objects.
- Then go back to their seats, and add same units such as grams in grams, and kilogram in kilogram.
- Also discuss, which objects are heavier and lighter?
- Allow group discussion, and ask students to share their finding, and what did they concluded at the end?

Review: 3mins

Sum up the lesson by retelling students how to add the units of mass by solving examples on the board.

Evaluation: 5mins

To assess the students learning, ask them to solve Q1 (i, vi) of Exercise 5.4 in their textbooks.

Homework: 2mins

Solve the given worksheets.

Worksheet

Name: _____ **Date:** _____

Q1. Add the following numbers and give answers in kilograms and grams.

1. 1 kg 700 g
   + 4 kg 110 g

2. 5 kg 500 g
   + 2 kg 400 g

3. 6 kg 350 g
   + 3 kg 600 g

4. 3 kg 320 g
   + 5 kg 400 g

5. 3 kg 500 g
   + 4 kg 100 g

6. 1 kg 230 g
   + 2 kg 200 g

7. 3 kg 510 g + 4 kg 400 g = ...

8. 2 kg 750 g + 6 kg 100 g = ...

9. 6 kg 220 g + 3 kg 300 g = ...

10. 1 kg 750 g + 2 kg 100 g = ...

Lesson Plan

Grade: Four	**Subject:** Math	**Term:** 3rd	**Time:** 40mins
Teacher's Name: _____	**Week:** 1	**Day:** 6	
Unit 5: Measurement	**Topic:** Addition and Subtraction of Units of Mass		

Student Learning Outcomes:

At the end of this period, the students will be able to:

- Add and subtract measures of mass in same units.

Resource Material:

Chalk / Marker, White /Blackboard, Math Textbook

Warm-up Activities: 5mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask students about their home work. Ask students: How can we add the units of mass with carrying? Call a student to the front of the class and ask him/her to write the units of mass in kilograms and grams. Then add the units of mass. Tell them to always add kilograms in kilograms and grams in grams.

Teaching & Learning Activities: 25mins

- Tell students today they are going to subtract the measures of mass in same units.
- Write statement on board. "Ahsan bought 25kg 850g of flour to distribute among the needy. If he distributed 14 kg 230g of flour, how much was leftover?
- Tell students, here we have to find leftover, after distribution. For this we have to subtract 14kg 230g from 25kg 850g. First, write these numbers vertically on the board, then subtract the same units.
- Now tell students to convert it into grams first
  We convert 11kg into grams and then add 620g In it.
  11kg 620g = 11kg + 620g = 11 x 1000g + 620g
  = 11,000g + 620g = 11,620g

25kg	850g	
- 14 kg	230g	
11kg	620g	

Review: 3mins

Retell students how to subtract the units of mass and tell them to always subtract the smaller unit from the greater one.

Evaluation: 5mins

To assess the students learning, ask them to solve Q2 (i, iii) of Exercise 5.4 in their textbooks.

Homework: 2mins

Solve Q3 (iv - vi) in their textbooks.