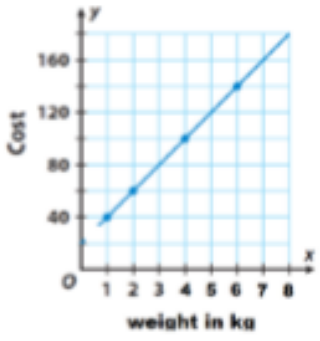
SECOND TERM
WEEKLY LESSON NOTES
WEEK 3

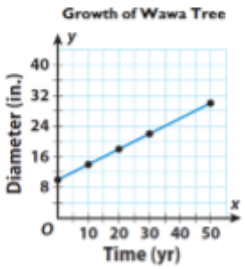
Week Ending: 14-04-2023	**DAY:**	**Subject:** Mathematics
Duration: 60MINS		**Strand:** Number
Class: B8	**Class Size:**	**Sub Strand:** Linear Relations

Content Standard: B8.2.1.1 Demonstrate the ability to draw table of values for a linear relation	**Indicator:** B8.2.1.1.2 Use graph of a linear relation to determine subsequent missing elements in the ordered pairs of the relation	**Lesson:** 1 of 2
Performance Indicator: Learners can use graph of a linear relation to determine subsequent missing elements in the ordered pairs of the relation		**Core Competencies:** Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)
References: Mathematics Curriculum Pg. 115-116		

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share performance indicators with learners and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Guide learners to use graph of a linear relation to determine subsequent missing elements in the ordered pairs of the relation. Write a sample question on the board and take learners through its solution. Use information from a graph to find missing elements. The graph represents the relation $yy = 20xx$, where y is the cost (in Ghana cedis) of the weight (in kilograms) of meat sold in a market.  Use the graph to find: i. the cost of 3.5kg of meat ii. the weight of meat that can be bought with GH₵80.	Counters, bundle and loose straws base ten cut square, Bundle of sticks

<table>
<tr>
<td></td>
<td>iii. Using the relation from the graph, how many kilograms of meat can be bought at a cost of GH₵240.

Use information from a graph to find missing element.

The diameter of a wawa tree is currently 10 inches when it is measured at chest height. After 50 years, the diameter is expected to increase by an average growth rate of 2/5 inch per year. The equation y = 2/5x + 10 gives you y. the diameter of the tree in inches, after x years

Use the graph to complete the table below

<table>
<tr><td>X (years)</td><td>0</td><td>10</td><td>20</td><td>30</td><td>50</td></tr>
<tr><td>Y (diameter)</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

What will be the diameter of the tree in 100 years?</td>
<td></td>
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<tr>
<td>PHASE 3:
REFLECTION</td>
<td>Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.</td>
<td></td>
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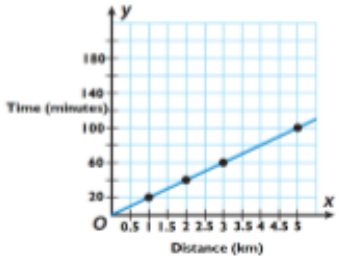
</table>

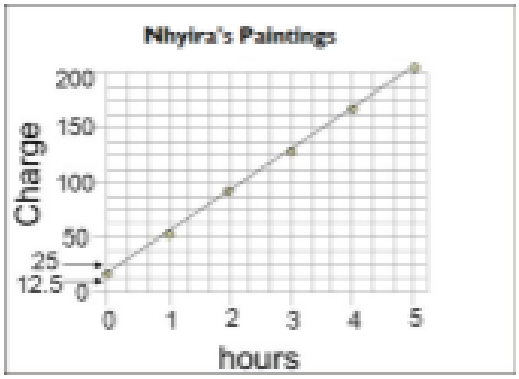
Week Ending: 14-04-2023	**DAY:**	**Subject:** Mathematics
Duration: 60MINS		**Strand:** Algebra
Class: B8	**Class Size:**	**Sub Strand:** Linear Relations

Content Standard: B8.2.1.1 Demonstrate the ability to draw table of values for a linear relation	**Indicator:** B8.2.1.1.3 Use graphs of linear relations to solve real life problems	**Lesson:** 2 of 2

Performance Indicator: Learners can use graphs of linear relations to solve real life problems	**Core Competencies:** Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)

References: Mathematics Curriculum Pg. 117

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share performance indicators with learners and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Guide learners to use graphs of linear relations to solve real life problems. Write a sample question on the board and take learners through its solution. Every morning, you go for a walk. The distance you walk can be modelled by the equation d = ½h, where d is the distance walked in kilometers and h is the number of hours you've walked. Make a table for the relation and draw a graph with the values to see how far you've walked after 6hours. Copy and complete the table for the relation: Distance | 1 | 2 | 3 | 4 | 5 Time | | | | |  Nhyira paints portraits of people for a living. The graph below shows how much she charges based on how long it takes her to paint the portrait. Use the graph to answer the questions that follow	Counters, bundle and loose straws base ten cut square, Bundle of sticks

	How much does she charge for a portrait that takes 3 hours to paint? ii. Is she charges GH₵175, how many hours did she use to paint the portrait? iii. How many hours will she require to paint a portrait that cost GH₵300?  	
PHASE 3: **REFLECTION**	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	