## SECOND TERM WEEKLY LESSON NOTES <br> WEEK 3

| Week Ending: 26 | -202 |  | DAY: |  | Subject: Mathematics |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS |  |  |  |  | Strand: Algebra |  |
| Class: B9 |  | Class Size: |  |  | Sub Strand: Patterns and Relations |  |
| Content Standar B9.2.I.I Demons tables of values fo graph the relation determine the int solve simultaneous | rate th pairs in a $n$ rsectio linear | bility to linear rela ber plane of the lin quations |  | Indicator: <br> B9.2.I.I.I Construct a table of values for two linear relations and graph the relation. |  | Lesson: <br> I of I |
| Performance Indicator: <br> Learners can o graph linear relations on a coordinate plane and interpret the slope and $y$-intercept of a graph. |  |  |  |  | Core Competencies: <br> Communication and Collaboration (CC) Critical <br> Thinking and Problem solving (CP) |  |
| References: Mathematics Curriculum Pg. 180 |  |  |  |  |  |  |
| New words: values, relation, linear, relations, graph |  |  |  |  |  |  |
| Phase/Duration | Learners Activities |  |  |  |  | Resources |
| PHASE I: STARTER | Review the concept of linear relationships, emphasizing that they represent a constant rate of change. <br> Introduce the terms "table of values" and "graph of a linear relation." <br> Share performance indicators and introduce the lesson. |  |  |  |  |  |
| PHASE 2: NEW LEARNING | Explai and equati <br> Demo <br> Three (-I,-5) (1,-1) <br> $(3,3)$ | how to cr ulating cor or rule. <br> trate with $\begin{array}{\|l\|} \hline \mathbf{2 x - 3} \\ \hline 2(-I)-3 \\ \hline 2(I)-3 \\ \hline 2(3)-3 \\ \hline \end{array}$ <br> lutions to | able ding mpl y -I | of value output <br> e, such <br> on $y=2$ | by choosing input values ( x ) values $(y)$ using the given $y=2 x+1$ <br> ed pairs + I are; | Graph paper, <br> Rulers, Realworld examples of linear relationships (e.g., distance vs. time, cost vs. quantity) |




| Week Ending: 26-01-2024 |  | DAY: |  | Subject: Mathematics |  |
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| Duration: 60MINS |  |  |  | Strand: Algebra |  |
| Class: B9 |  | Class Size: |  | Sub Strand: Patterns and Relations |  |
| Content Standard: <br> B9.2.I.I Demonstrate the ability to construct tables of values for pairs of linear relations, graph the relations in a number plane and determine the intersection of the lines to solve simultaneous linear equations |  |  | Indicator: <br> B9.2.I.I. 2 Use graphs of two linear relations to determine subsequent missing elements in ordered pairs of the relation |  | Lesson: <br> I of I |
| Performance Indicator: <br> Learners can interpret and analyze graphs of linear relations to determine missing elements in ordered pairs. |  |  |  | Core Competencies: <br> Communication and Collaboration (CC) <br> Critical Thinking and Problem solving (CP) |  |
| References: Mathematics Curriculum Pg. I8I |  |  |  |  |  |
| New words: |  |  |  |  |  |
| Phase/Duration | Learners Activities |  |  |  | Resources |
| PHASE I: STARTER | Briefly review key concepts from previous lessons: linear relationships, tables of values, graphs, slope, and $y$-intercept. <br> Engage learners with a quick graphing activity to refresh their skills. <br> Share performance indicators and introduce the lesson. |  |  |  |  |
| PHASE 2: NEW LEARNING | Display a graph of a linear relation with several ordered pairs plotted, but some missing elements (e.g., (2, ?), (?, 6)). <br> Challenge learners to determine the missing values using only the graph's information. <br> Guide learners to use the graph's patterns and characteristics to predict missing elements: <br> - Emphasize the constant rate of change (slope). <br> - Encourage them to visualize the line extending beyond plotted points. <br> - Demonstrate how to use slope to "count up" or "count down" to find missing $y$-values. <br> - Show how to trace back to the $y$-axis to find missing $x$ values. <br> Provide opportunities for learners to practice with various graphs and missing elements. <br> Divide learners into pairs or small groups. <br> Distribute a set of graphs with different missing elements to each group. <br> Task them with working together to determine the missing values and justify their reasoning. |  |  |  | Graph paper, Rulers |



