# SECOND TERM <br> WEEKLY LESSON NOTES <br> WEEK 8 

| Week Ending: ${ }^{\text {d }}$ DAY: |  |  | Subject: Mathematics |  |
| :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS |  |  | Strand: Algebra |  |
| Class: B9 | Class Size: |  | Sub Strand: Variables and Equations |  |
| Content Standard: <br> B9.2.3. I Demonstrate understanding of single variable linear inequalities with rational coefficients |  | Indicator: <br> B9.2.3.I. 2 Illustrate solution sets of linear inequalities on the number line |  | Lesson: <br> I of I |
| Performance Indicator: <br> Learners can Illustrate solution sets of linear inequalities on the number line |  |  | Core Competencies: <br> Communication and Collaboration (CC) Critical <br> Thinking and Problem solving (CP) |  |
| References: Mathematics Curriculum Pg. 182 |  |  |  |  |
| New words: |  |  |  |  |
| Phase/Duration | Learners Activities |  |  | Resources |
| PHASE I: <br> STARTER | Play a quick "true or false" game to activate prior knowledge of equality and order of operations. <br> Show examples like $5+3=8$ (true), $4 \times 2<6$ (true), $\mathrm{I} 0 / 2>4$ (false). <br> Introduce the concept of inequalities as comparisons that are not "equal to." Ask learners for examples of situations where "less than," "greater than," etc. are used in real life. <br> Share performance indicators and introduce the lesson. |  |  |  |
| PHASE 2: NEW LEARNING | Show and explain each inequality sign with clear visualizations: <br> - "<" as an open mouth "eating" the larger number. <br> - ">" as an open mouth "swallowing" the smaller number. <br> - " $\leq$ " as a closed mouth including the larger number as a possibility. <br> - " $\geq$ " as a closed mouth including the smaller number as a possibility. <br> Write clear examples of each symbol used in inequalities like $4<9$, $7>2,3 \leq 5$, and I $\geq 0$. |  |  | Counters, bundle and loose straws base ten cut square, Bundle of sticks |




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| Phase/Duration | Learners Activities |  |  | Resources |
| PHASE I: <br> STARTER | Review previous knowledge of inequalities with a quick quiz or game. <br> Ask learners to recall the symbols and their meanings ( $<,>, \leq, \geq$ ) and give examples of each. <br> Discuss real-life scenarios where inequalities are used, like budget limitations or competition rankings <br> Share performance indicators and introduce the lesson. |  |  |  |
| PHASE 2: NEW LEARNING | Start with simple inequalities of isolating x by dividing both <br> Explain how the inequality si divide both sides by a positiv <br> Reverse the inequality if nec Introduce the concept of "b solutions. <br> Start with simple inequalities of isolating x by dividing both <br> Explain how the inequality si divide both sides by a positiv <br> Reverse the inequality if nec | ke $2 x<6$ ides by remain number <br> ary to dary <br> ke $2 x$ ides by remain number <br> ary to | 6. Demonstrate the process unchanged if we multiply or <br> nsure x is isolated on the left. ints" and their role in <br> 6. Demonstrate the process unchanged if we multiply or <br> nsure x is isolated on the left. | Counters, bundle and loose straws base ten cut square, Bundle of sticks |


|  | Introduce the concept of "boundary points" and their role in <br> solutions. <br> Introduce the concept of graphing linear inequalities on a Cartesian <br> plane (coordinate system). <br> Explain how linear inequalities translate to linear equations with <br> specific shading regions. <br> Start with simple examples like $y \leq 2 x$, where the equation forms a <br> boundary line and we shade the region below it. <br> Discuss how the direction of the inequality determines the shading <br> direction (above or below the line). |  |
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| PHASE 3: Use peer discussion and effective questioning to find out from <br> learners what they have learnt during the lesson. <br> REFLECTION Take feedback from learners and summarize the lesson. |  |  |

