## THIRD TERM

WEEKLY LESSON NOTES WEEK 3

| Week Ending: 14 | -07-2023 | DAY: |  |  | Subject: Mathematics |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS |  |  |  |  | Strand: Number |  |  |
| Class: B8 |  | Class Size: |  |  | Sub Strand: Ratios and Proportion |  |  |
| Content Standard: <br> B8.I.4.IDemonstrate an understanding of ratio, rate and proportions and use it these to solve real-world mathematical problems |  |  | Indicator: <br> B8.I.4.I.4 Recognize and represent proportional relationships between quantities by deciding whether two quantities are in a proportional relationship. |  |  |  | Lesson: <br> I of I |
| Performance Indicator: <br> Learners can recognize and represent proportional relationships between quantities by deciding whether two quantities are in a proportional relationship |  |  |  |  | Core Competencies: <br> Communication and Collaboration (CC) <br> Critical Thinking and Problem solving (CP) |  |  |
| References: Mathematics Curriculum Pg. 105 |  |  |  |  |  |  |  |
| $\begin{array}{\|l} \hline \text { Phase/Duration } \\ \hline \text { PHASE I: } \\ \text { STARTER } \\ \hline \end{array}$ | Learners Activities <br> Using blackboard illustrations, review learners understanding in the previous lesson. <br> Introduce the lesson by sharing the performance indicators. |  |  |  |  | Resources |  |
|  |  |  |  |  |  |  |  |
| PHASE 2: NEW LEARNING | Brainstorm and discuss with learners the meaning of proportional relationship. <br> A proportional relationship is a type of relationship between two quantities in which their ratio remains constant. In other words, when one quantity is multiplied by a constant factor, the other quantity is also multiplied by the same constant facto. <br> For example, consider a situation where the distance traveled by a car is proportional to the time it takes to travel that distance. If the car travels 60 miles in 2 hours, then the distance-time ratio is $60 / 2=30$ miles per hour. If the car then travels 90 miles, we can use the proportional relationship to find the corresponding time. Since the ratio is 30 miles per hour, the time it takes to travel 90 miles is $90 / 30=3$ hours. |  |  |  |  | Counters, bundle and loose straws base ten cut square, Bundle of sticks |  |



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| Class: B8 |  | Class Size: | Sub Strand: Ratios and Proportion |  |
| Content Standar B8.I.4.IDemonstr ratio, rate and prop to solve real-world | an understanding of ortions and use it these mathematical problems | Indica B8.I.4. (unit rat verbal | the constant of proportionality es, graphs, equations, diagrams, and ss of proportional relationships. | Lesson: <br> I of I |
| Performance Inc Learners can make quantities that are | cator: <br> tables of equivalent ratio roportional | relating | Core Competencies: <br> Communication and Collaboration <br> Thinking and Problem solving (CP) | (CC) Critical |
| References: Math | matics Curriculum P |  |  |  |
| Phase/Duration | Learners Activities |  |  | Resources |
| PHASE I: STARTER | Using blackboard illu previous lesson. <br> Introduce the lesson | rations, <br> sharin | earners understanding in the <br> formance indicators. |  |
| PHASE 2: NEW LEARNING | Guide learners to ex <br> When two variables increase or decrease variable doubles, the that expresses this re $y=k x$ <br> Where $y$ and $x$ are the proportionality. The values of $y$ and $x$. <br> For example, if $y$ is $d$ then the constant of $k=y / x=4 / 2=2$ <br> So the equation that $y=2 x$ <br> This means that if $x$ is multiplied by the sam remain constant at 2 . <br> An ant travels 9 8inc and I 5 seconds. Wh | ain con <br> e direc the sa ther var ationshi <br> two va value of $k$ <br> ectly pr roportio <br> xpresse <br> multipli numbe <br> es in 45 is the | roportionality. <br> rtional, it means that they In other words, if one ubles as well. The equation form: <br> and k is the constant of the same for any given set of <br> al to $x$, and $y=4$ when $x=2$, , is given by: <br> tionship between y and x is: <br> number, $y$ will also be e ratio between $y$ and $x$ will <br> and 278 inches in 2 minutes of proportionality? | Counters, bundle and loose straws base ten cut square, Bundle of sticks |
| $\begin{aligned} & \text { PHASE 3: } \\ & \text { REFLECTION } \end{aligned}$ | Use peer discussion learners what they h <br> Take feedback from | effec learn ners | tioning to find out from the lesson. <br> arize the lesson. |  |

