## THIRD TERM

WEEKLY LESSON NOTES WEEK 2

| Week Ending: 07-07-2023 |  | DAY: |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS |  |  | Strand: Number |  |
| Class: B8 |  | Class Size: | Sub Strand: Ratios and Proportion |  |
| Content Standar B8.I.4.IDemonstr ratio, rate and pro to solve real-world | e an understanding of ortions and use it these mathematical problems | Indicato B8.I.4.I. measurem appropri | tio reasoning to convert its; manipulate and transform units en multiplying or dividing quantities | Lesson: <br> I of I |
| Performance Inc Learners can use $r$ units | cator: <br> io reasoning to convert | easurement | 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: <br> STARTER | Using blackboard illu previous lesson. <br> Introduce the lesson | rations, rev <br> sharing th | earners understanding in the <br> formance indicators. |  |
| PHASE 2: NEW LEARNING | Revise with learners <br> Brainstorm learners <br> A ratio is a compariso usually expressed in the there are 10 boys and 10:20, which can be sim <br> A rate, on the other ho different units of meas or a percentage. Rates something occurs. For rate of speed is 60 mil <br> Guide learners to co unit of measure to a <br> To convert centimeters to by 100. This is because <br> The formula for convertin meters $=$ centi <br> For example, if you have meters $=150 / 100$ meters $=1.5$ <br> Therefore, 150 centimet | n some com <br> $r$ the differ <br> of two quant form of a fro 0 girls in a clas plified to I:2 <br> d, is a comp rement, often re used to d xample, if a car per hour (m <br> vert (cm to ther using <br> meters, you ne re are 100 c <br> centimeters to ters / 100 <br> length of 150 <br> is equivalent | units of measurement. <br> between ratio and rates. <br> hat are related in some way, or a colon. For example, if oom, the ratio of boys to girls is <br> of two quantities that have ressed in the form of a fraction be how quickly or how often ravels 60 miles in one hour, its <br> m to $\mathrm{m} ; \mathrm{ml}$ to cm ; etc.) one reasoning. <br> divide the number of centimeters eters in one meter. <br> ers is: <br> imeters, the calculation would be: <br> 5 meters. | Counters, bundle and loose straws base ten cut square, Bundle of sticks |



|  | - Convert 3200 cm to meters <br> - How many centimeters are in 60 m ? <br> $\bullet$ Change 7.2 m to centimeters. <br> - Convert 800 m to km. |  |
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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. |  |


| Week Ending: 07-07-2023 |  | DAY: | Subject: Mathematics |  |
| :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS Stral |  |  | 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: B8.I.4.I. 2 Solve unit rate problems including those involving unit pricing and constant speed; and speed translation. |  | Lesson: <br> I of I |
| Performance Indicator: <br> Learners can solve unit rate problems including those involving unit pricing and constant speed; and speed translation. |  |  | Core Competencies: <br> Communication and Collaboration (CC) <br> Critical Thinking and Problem solving (CP) |  |
| References: Mathematics Curriculum Pg. 105 |  |  |  |  |
| Phase/Duration PHASE I: STARTER | 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 | Guide learners to so pricing and constant sp <br> Unit pricing problem particular item. To s of the item by the qu <br> If a 24 -pack of bottle bottle? <br> Solution: <br> Price per bottle $=$ Tota <br> Price per bottle $=\mathbb{\$} 5$. <br> Price per bottle $=\mathbb{C} 0.2$ <br> Therefore, the price per <br> Constant speed prob <br> Constant speed prob taken to travel a cer constant speed prob <br> distance $=$ speed $\times$ ti <br> For example: <br> If a car travels at a co it travel in 2.5 hours? <br> Solution: <br> distance $=$ speed $x$ tim <br> distance $=60 \mathrm{mph} \times$ <br> distance $=150$ miles <br> Therefore, the car will <br> 60 miles per hour. | unit rate problems in d. <br> involve calculating th e a unit pricing prob tity of the item. For <br> water costs $\mathbb{\$} 5.99$, <br> cost of 24-pack / Quan / 24 <br> bottle of water is $\$ 0.2$ <br> m: <br> ms involve calculatin n distance at a const $m$, use the formula: <br> e or time $=$ distance <br> stant speed of 60 mi <br> hours <br> ravel I 50 miles in 2.5 | ng those involving unit <br> ice per unit of a , divide the total cost mple: <br> is the price per <br> of bottles <br> e distance or time speed. To solve a <br> eed <br> per hour, how far will <br> at a constant speed of | Counters, bundle and loose straws base ten cut square, Bundle of sticks |


|  | Assessment <br> If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed? <br> Solution: <br> To find out how many lawns could be mowed in 35 hours, we can use the following proportion: <br> 4 lawns $/ 7$ hours $=x$ lawns $/ 35$ hours <br> Solving for $x$, we can cross-multiply: <br> 4 lawns * 35 hours $=7$ hours $* x$ lawns <br> 140 lawns $=7 x$ $x=20$ <br> 4 lawns $/ 7$ hours $=0.57$ lawns per hour <br> So, the rate at which lawns were being mowed is 0.57 lawns per hour. |  |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { PHASE 3: } \\ & \text { REFLECTION } \end{aligned}$ | Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. <br> Take feedback from learners and summarize the lesson. |  |

