## SECOND TERM WEEKLY LESSON NOTES WEEK 4

| Week Ending: 28-04-2023 |  | DAY: | Subject: Mathematics |  |
| :---: | :---: | :---: | :---: | :---: |
| Duration: 60MINS |  |  | Strand: Number |  |
| Class: B8 |  | Class Size: | Sub Strand: Algebraic Expressions |  |
| Content Standard: <br> B8.2.I.I Demonstrate the ability to draw table of values for a linear relation |  | Indicator: <br> B8.2.2.I.I Use the distributive property to remove brackets and solve multiplication of binomial expression |  | Lesson: <br> I of 2 |
| Performance Indicator: <br> Learners can use the distributive property to remove brackets and solve multiplication of binomial expression |  |  | Core Competencies: <br> Communication and Collaboration (CC) <br> Critical Thinking and Problem solving (CP) |  |
| References: Mathematics Curriculum Pg. II5-116 |  |  |  |  |
| Phase/Duration | Learners Activities |  |  | Resources |
| PHASE I: STARTER | Revise with learners on the previous lesson. <br> Share performance indicators with learners and introduce the lesson. |  |  |  |
| PHASE 2: NEW LEARNING | Guide learner Expanding exp an expression. <br> To expand a giv Multiply every brackets. <br> Change the o <br> Write this que Expand -5x (3x <br> Solution $\begin{aligned} & -5 x(3 x+4)= \\ & =-15 x^{2}-20 x \end{aligned}$ <br> So the expand <br> Let learners <br> a) $3(x+4)$ <br> b) $2(6-5 x)-$ <br> Solution <br> To simplify 3( the terms insid $3(x+4)-2(x$ <br> Next, we can | s to explain Expanding ression is a way of removin <br> given expression; term inside the bracke <br> erators accordingly and <br> estion on the board and $x+4)$ $-5 x(3 x)-5 x(4)$ <br> ded form of $-5 x(3 x+4)$ <br> olve the following $\begin{array}{r} -2(x-5) \\ 3(2+2 x) \end{array}$ <br> $x+4)-2(x-5)$, we firs de the parentheses: $-5)=3 x+12-2 x+10$ <br> combine like terms: | on. ets or parenthesis from <br> e term outside the ne the terms. <br> arners to solve in pairs. <br> 2-20x. <br> ute the 3 and -2 across | Counters, bundle and loose straws base ten cut square, Bundle of sticks |


|  | $3 x-2 x+12+10=x+22$ <br> Therefore, the simplified form of $3(x+4)-2(x-5)$ is $x+22$. <br> Guide learners to multiply binomial expressions. <br> To multiply two binomial expressions, you can use the FOIL method, which stands for First, Outer, Inner, Last. <br> I. Multiply the first term of each binomial together. <br> 2. Multiply the outer terms of each binomial together. <br> 3. Multiply the inner terms of each binomial together. <br> 4. Multiply the last term of each binomial together. <br> 5. Add the results of steps I-4 to obtain the final product. <br> Write this example on the board and let learners solve in pairs: $(3 x+2)(2 x-5)$ <br> Using the FOIL method, we get: <br> First: $(3 \mathrm{x})(2 \mathrm{x})=6 \mathrm{x}^{2}$ <br> Outer: $(3 x)(-5)=-15 x$ <br> Inner: $(2)(2 x)=4 x$ <br> Last: (2)(-5) $=-10$ <br> Adding the results of steps $1-4$, we get: $6 x^{2}-15 x+4 x-10$ <br> Simplifying, we get: $6 x^{2}-11 x-10$ <br> Therefore, the product of $(3 x+2)(2 x-5)$ is $6 x^{2}-11 x-10$. <br> Learners work in groups to solve the following. <br> a) $(y+3)(y+7)$ <br> b) $(k-4)(k+10)$ <br> c) $(2 x+5)(3 x-1)$ <br> d) $(x-5)(6 x+12)$ <br> e) $(2 t+3)(3 t-1)$ |  |
| :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { PHASE 3: } \\ & \text { REFLECTION } \end{aligned}$ | 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. |  |


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| References: Mathematics Curriculum Pg. 115-116 |  |  |  |  |
| Phase/Duration | Learners Activities |  |  | Resources |
| PHASE I: STARTER | Revise with learners on the previous lesson. <br> Share performance indicators with learners and introduce the lesson. |  |  |  |
| PHASE 2: NEW LEARNING | Guide learner To multiply two stands for First, <br> I. Multiply the <br> 2. Multiply the <br> 3. Multiply the <br> 4. Multiply the <br> 5. Add the resu <br> Write this exa $(3 x+2)(2 x-5)$ <br> Using the FOI <br> First: ( 3 x )(2x) <br> Outer: (3x)(-5) <br> Inner: (2)(2x) <br> Last: $(2)(-5)=$ <br> Adding the re $6 x^{2}-15 x+4 x$ <br> Simplifying, we $6 x^{2}-11 x-10$ <br> Therefore, the <br> Learners work $(y+3)(y+7)$ <br> (k-4) $(k+10)$ <br> $(2 x+5)(3 x-1)$ <br> $(x-5)(6 x+12)$ <br> ( $2 t+3$ ) $(3 t-1)$ | s to multiply binomial exp binomial expressions, yo Outer, Inner, Last. first term of each binomia outer terms of each binom inner terms of each binom last term of each binomia ults of steps I-4 to obtain <br> ample on the board and 5) <br> L method, we get: $\begin{aligned} & =6 x^{2} \\ & 5)=-15 x \\ & =4 x \\ & =-10 \end{aligned}$ <br> sults of steps I-4, we get - 10 <br> get: <br> product of $(3 x+2)(2 x$ <br> $k$ in groups to solve the | ns. the FOIL method, which er. ther. ther. <br> er. <br> product. <br> ners solve in pairs: $6 x^{2}-11 x-10$ <br> g. | Counters, bundle and loose straws base ten cut square, Bundle of sticks |



