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SECOND TERM WEEKLY LESSON NOTES WEEK 7

Date: 24 th JUNE, 2022		DAY:		Subject: Mathematics	
Duration:			Strand: Algebra		
Class: B7	Class Size:			Sub Strand: Algebraid	Expressions
Content Standard: B7.2.2.1 Simplify algebraic expressions involour basic operations and substituting values evaluate algebraic expressions.				ubstitute values to ebraic expressions.	Lesson:
Performance Indicator: Learners can substitute values to evaluate algebraic			pressions	Core Competencies Communication and Critical Thinking and	
References: Mathematics	Curriculun	n Pg. 39-40			
Phase/Duration	Lagragera	A saivities			Dagayyaaa
Phase/Duration PHASE I: STARTER	Learners		2014000 001:	out to find out what	Resources
PHASE I: STARTER	learners a	Iready know	about Algeb	ew to find out what braic Expressions. duce the lesson.	
PHASE 2: NEW LEARNING	Guide learners to substitute values to evaluate algebraic expressions Let learners note the following rules when substituting values. ab means the product of a and b. That is a x b. 2a means the product of the quantities 2 and a. That is 2 x a. a² means the square of a. That is a x a. 3a means the product of the quantities 3 and a. that is 3 x a. a³ means the third power of a. that is a x a x a. - d means -1 x d or -1d. 3ab² means 3 x a x b² or 3 x a x b x b. Example: Simplify the following expressions and substitute the values to evaluate them, if $x = 2$, $y = 4$, $p = 3$ and $z = -1$, 1. $3xy \times 5y$ = $(3 \times 2 \times 4) \times (5 \times 4)$ = 24×20 = 480 II. $7xy + 5x - 4x + 2xy - 3$ = $(7 \times 2 \times 4) + (5 \times 2) - (4 \times 2) + (2 \times 2 \times 4) - 3$ = $56 + 10 - 8 + 16 - 3$ = 71				Counters, bundle and loose straws base ten cut square, Bundle of sticks, rectangular cut out, bottle tops, algebra tiles

Have learners practice with more examples.

Guide learners to simplify the following expressions and substitute the values to evaluate them,

if
$$x = 2$$
, $y = 4$, $a = 3$, $b = 2$, $z = 1$ and $c = -1$,

i.
$$\frac{8xyz}{16xy}$$

to solve this, we first simplify the expression.

$$\frac{8xyz}{16xy} = \frac{1}{2} * (x - x) * (y - y) * z$$

Now substitute the values

$$=\frac{1}{2}*z=\frac{1}{2}*|z=\frac{1}{2}$$

Let learners practice with more examples.

<u>Assessment</u>

Simplify the following expressions and substitute the values to evaluate them,

If
$$x = 2$$
, $y = 4$, $p = 4$ and $z = -1$

- 1. $4p \times 8z^2$
- 2. 5x + 4 9y + 3x + 2y 7
- 3. 7xy + 5x 4x + 2xy 3
- 4. $\frac{18xp^3}{24xz}$
- $5. \quad \frac{12x^3y^2}{16xy^4}$
- $6. \quad \frac{-30abp}{6ab^3c^2}$
- 7. If x = 5, a = 8, b = 3, h = 6, find the perimeter and area of the following shapes.





PHASE 3: REFLECTION

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

Date: 24 th JUNE, 2022		DAY:		Subject: Mathematics		
Duration:				Strand: Algebra		
Class: B7	Class Size:		e:	Sub Strand: Algebraic Expressions		
Content Standard: B7.2.2.1 Simplify algebraic expressions in the four basic operations and substitutin to evaluate algebraic expressions. Performance Indicator: Learners can simplify algebraic expression four operations. References: Mathematics Curriculum		four operations expressions with the state of the state o		Lesson: 2 of 2 Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)		
References: Flacticinaties	Curricular	11 1 g. 37-10	,			
Phase/Duration PHASE I: STARTER	Learners Revise wi Call volur questions	Resources				
PHASE 2: NEW LEARNING	the four of When work have more The follow Deal with an	2xy² - 4x² by groupin 4x²y + 2xy	Counters, bundle and loose straws base ten cut square, Bundle of sticks, rectangular cut out, bottle tops, algebra tiles			

	$= (180 p^3 q^2 x^5 y^3) \div (1620 pqxy)$	
	We then write it in fraction	
	$= \frac{180p^3q^2x^5y^3}{180p^3q^2x^5y^3}$	
	1620pqxy	
	$= 9 p^2 q x^4 y^2$	
	Guide learners to practice with more examples.	
	Assessment	
	I. 8xyz ÷ 16xy x 2	
	2. $5ab^2 \times 3a^2b \div ab$	
	3. $4x + 7 - 2x + 4 \times 7x$	
	4. (h + 7) – (h - 8)	
	5. $(e + f + g) - (e - f + g)$	
PHASE 3:	Use peer discussion and effective questioning to find out	
REFLECTION	from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	