

**MATATAG**

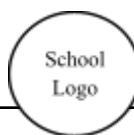
Bansang Makabata



Batang Makabansa



BAGONG PILIPINAS

School
Logo

Name of School:		Quarter:	4th Quarter
Grade Level & Section:	Grade 7	Week:	Week 2 Day 3
Subject:	MATH	Date and Time:	
Topic:		Teacher:	

I. CONTENT, STANDARDS AND LEARNING COMPETENCIES		ANNOTATIONS
A. CONTENT STANDARDS	The learners should have knowledge and understanding of the solution of simple equations	
B. PERFORMANCE STANDARDS	By the end of the lesson, the learners can solve simple equations. and substitute it into an algebraic expression to evaluate the expression.	
C. LEARNING COMPETENCIES AND LEARNING OBJECTIVES	The learners can: 1. Distinguish a variable from a constant in an algebraic expression. 2. Translate verbal phrases into algebraic expressions. 3. Evaluate algebraic expressions given the value/s of the variables.	
I. CONTENT		
Algebraic Expression (Weeks 1 & 2)		
II. LEARNING RESOURCES		
A. REFERENCES	CK-12 Foundation. (2024, January 11). Evaluating algebraic expressions and equations. https://flexbooks.ck12.org/cbook/ck-12-algebra-ii-with-trigonometry-concepts/section/1.4/primary/lesson/evaluating-algebraic-expression	

	s-and-equations-alg-ii/ Department of Education. (2020). Mathematics quarter 2 – module 4: algebraic expressions. (1). Khan Academy. (2015, September 12). What are terms, factors, and coefficients in algebraic expressions? 6th grade Khan Academy. YouTube. https://www.youtube.com/watch?v=9_VCk9tWT0Y Miacademy Learning Channel. (2021, March 31). Let's learn about terms, factors, & coefficients [Video]. YouTube. https://www.youtube.com/watch?v=pdTmDdKg554 Miacademy Learning Channel. (2021, April 24). What's a variable? YouTube. https://www.youtube.com/watch?v=70-qzr3x6Ys
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B. OTHER LEARNING RESOURCES	
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III. TEACHING AND LEARNING PROCEDURE

BEFORE/PRE-LESSON PROPER

ACTIVATING PRIOR KNOWLEDGE	Short Review Show your solution. 1. A movie theater charges ₱150 per ticket, plus a ₱20 service fee per transaction. How much will the total cost be for 4 tickets? 2. A gym offers a membership plan with a ₱1,000 registration fee and a monthly charge of ₱500. How much will a member pay for 6 months? 3. The perimeter P of a rectangle is given by the formula $P = 2L + 2W$, where $L = 10$ m and $W = 7$ m. Find the perimeter of the rectangle.	
LESSON PURPOSE/INTENTION	Unscramble the letters to form words related to algebraic expressions. ELEVAUATE → FARMTLOU → VIABERAL → NECIOTFFEI → SSERPEXINO →	Answer: 1. EVALUATE 2. FORMULA 3. VARIABLE 4. COEFFICIENT 5. EXPRESSION
LESSON LANGUAGE PRACTICE	Fill in the Blanks 1. The _____ of an expression is the result you get after evaluating it. 2. A _____ is a combination of numbers, variables, and operations but without an equal sign. 3. In solving problems, we often _____ a value into a variable.	Answers: 1. Solution 2. Expression. 3. Substitute 4. Determine. 5. Formula

	4. Parentheses _____ the order in which operations should be performed. 5. The _____ used in word problems helps define the mathematical relationship.	
DURING/LESSON PROPER		
READING THE KEY IDEA/STEM		
DEVELOPING UNDERSTANDING OF THE KEY IDEA/STEM	DAY 3 3. Lesson Activity Activity: - Spin the spinner or draw a card to determine the value of a variable. - Use the given value to evaluate the algebraic expression. - Write down your answer. - Repeat for each algebraic expression. - Have fun twisting and evaluating! Worksheet: Spinner Results: $x=3$ $2x+5$ Answer: _____ $3x-2$ Answer: _____ $4x^2+2x-3$ Answer: _____ $5x+10$ Answer: _____ $7x^2+3x+7$ Answer: _____ Spinner Results: $x=6$ $3x-4$ Answer: _____ $12x^2+5x+1$ Answer: _____ $4x+3$ Answer: _____ x^2-2x+5 Answer: _____ $6x+8$ Answer: _____	Note: Use a spinner or cards with values for the variable x to add a twist to the worksheet activity. You can also encourage students to create their spinners or cards for more variety. Answer Key: $2(3)+5$ $6+5=11$ $3(3)-2$ $9-2=7$ $4(3)^2+2(3)-3$ $4(9)+6-3$ $36+6-3$ $42-3=39$ $5(3)+10$ $15+10=25$ $7(3)^2+3(3)+7$ $7(9)+9+7$ $63+9+7$ $72+7=79$ $3(6)-4$ $18-4=14$ $12(6)^2+5(6)+1$ $12(36)+30+1$ $432+30+1$ $462+1=463$ $4(6)+3$ $24+3=27$ $(6)^2-2(6)+5$ $36-12+5$ $24+5=29$ $6(6)+8$ $36+8=44$

DEEPENING UNDERSTANDING OF THE KEY IDEA/STEM										
AFTER AFTER/POST-LESSON										
MAKING GENERALIZATIO N AND ABSTRACTIONS	Learners' Takeaways Generalization Questions: Sub-topic 1: 1. What steps do you follow to evaluate an algebraic expression with given variable values? 2. Which aspect of evaluating algebraic expressions do you find challenging? Reflection on Learning After completing the exercises, use this checklist to evaluate your mastery of the objectives of this section <table><tr><td>I can</td><td>Confidently</td><td>With some Help</td><td>No, I didn't get it</td></tr><tr><td>Evaluate Algebraic Expressions</td><td></td><td></td><td></td></tr></table>	I can	Confidently	With some Help	No, I didn't get it	Evaluate Algebraic Expressions				
I can	Confidently	With some Help	No, I didn't get it							
Evaluate Algebraic Expressions										
EVALUATING LEARNING	Short quiz: Multiple Choice (Choose the correct answer)	Answer: Multiple Choice 1. b								

	1. What is the value of $3x+53x + 53x+5$ when $x=4x = 4x=4$? a) 12 b) 17 c) 15 d) 20 2. If $P=5y-8P = 5y - 8P=5y-8$, what is the value of PPP when $y=6y = 6y=6$? a) 22 b) 30 c) 26 d) 18 3. Which of the following is a constant in the expression $7x+4y-97x + 4y - 97x+4y-9$? a) 7 b) x c) 4y d) -9 4. What is the coefficient of xxx in the expression $12x-512x - 512x-5$? a) 12 b) -5 c) x d) 7 5. If the temperature of a pizza oven increases by 15°C per hour and starts at 120°C, what will be the temperature after 3 hours? a) 135°C b) 165°C c) 150°C d) 180°C	2. c 3. d 4. a 5. b
ADDITIONAL ACTIVITIES FOR APPLICATION OR REMEDIATION (IF APPLICABLE)		
REMARKS		

REFLECTION		
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Prepared by:

Subject Teacher
Teacher

Reviewed by:

Master Teacher/Head