Pantabangan St., NIA Village, Sauyo, Quezon City

DAILY LESSON LOG S.Y. 2025–2026

Date: June 30 - July 4, 2025 Quarter: $\underline{1}$ Week: $\underline{3}$

Teacher: JONATHAN R. BACOLOD

LEARNING AREA/LEVEL: Mathematics 8

Section and Time	Monday	Tuesday	Wednesday	Thursday	Friday
bacolod	1	1	1	1	1
Section and Time	2	2	2	2	2
Section and Time	3	3	3	3	3
Section and Time	4	4	4	4	4
Section and Time	5	5	5	5	5

I. OBJECTIVES:	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5		
	The learners demonstrate knowledge and understanding of:						
A. Content Standards	1. e						
B. Performance Standards	2. e By the end of the quarter, the learners are able to: 1. e 2. e						
C. Teaching Philosophy	To achieve the goals of these lessons, the best teaching philosophies to utilize are constructivism and progressivism.						
D. Learning Competencies	competency	competency	competency	competency	competency		
	The learner should be	The learner should be	The learner should be	The learner should be	The learner should be		
	able to:	able to:	able to:	able to:	able to:		
Learning Objectives:	a. recognize the concept of	a. recognize the concept of	a. recognize the concept of	a. recognize the concept of	a. recognize the concept of		
	b. write the	b. write the	b. write the	b. write the	b. write the		
	c. participate actively	c. participate actively	c. participate actively	c. participate actively	c. participate actively		
	in class discussion.	in class discussion.	in class discussion.	in class discussion.	in class discussion.		
II. CONTENT	Adding and Subtracting Simple Monomials	Multiplying and Dividing Simple Monomials and Deriving the Laws of Exponents	Multiplying Monomials and Binomials Using the Distributive Property	Using Special Product Patterns to Multiply Binomials	Factoring Polynomials with a Common Monomial Factor		

			llage, Sauyo, Quezon City			
III. LEARNING	List the materials to be used in different days. Varied resources of materials sustain children's interest in learning the lesson. Ensure					
RESOURCES	that there is a mix of concrete and manipulative materials as well as paper-based materials. Hands-on learning promotes concept					
RESOURCES	development.					
References						
A. 1. Teacher's Guide	Printed Materials	Printed Materials	Printed Materials	Printed Materials	Printed Materials	
2. Learner's Material	Worksheets	Worksheets	Worksheets	Worksheets	Worksheets	
3. Textbook	Worksheets	Worksheets	Worksheets	Worksheets	Worksheets	
B. Other Learning	Teacher-made exercises	Teacher-made exercises	Teacher-made exercises	Teacher-made exercises	Teacher-made exercises	
Resources	reacher-made exercises	reacher-made exercises	leacher-made exercises	reacher-made exercises	leacher-made exercises	
IV. PROCEDURES						
A. Reviewing Previous Lesson or Presenting New Lesson	Simple recall through Socratic questioning about Modeling Real-Life Situations with Algebraic Expressions.	Simple recall through Socratic questioning about Adding and Subtracting Simple Monomials.	Simple recall through Socratic questioning about Multiplying and Dividing Simple Monomials and Deriving the Laws of Exponents.	Simple recall through Socratic questioning about Multiplying Monomials and Binomials Using the Distributive Property.	Simple recall through Socratic questioning about Using Special Product Patterns to Multiply Binomials.	
B. Motivation	Flashcards: Operations on Integers.	Flashcards: Operations on Integers.	Flashcards: Operations on Integers.	Flashcards: Operations on Integers.	Flashcards: Operations on Integers.	
	The teacher will explain	The teacher will explain	The teacher will explain	The teacher will explain	The teacher will explain	
	the concepts and	the concepts and	the concepts and	the concepts and	the concepts and	
	procedures in the lesson.	procedures in the lesson.	procedures in the lesson.	procedures in the lesson.	procedures in the lesson.	
	Lesson 1.4: Adding and Subtracting Simple Monomials	Lesson 1.5: Multiplying and Dividing Simple Monomials and Deriving the Laws of Exponents	Lesson 1.6: Multiplying Monomials and Binomials Using the Distributive Property	Lesson 1.7: Using Special Product Patterns to Multiply Binomials	Lesson 1.8.1: Factoring Polynomials with a Common Monomial Factor	
C. Development of the Lesson: Presenting Examples/Instances of the Lesson	Monomial: An algebraic expression with only one term. Examples include $4x$, $-3y^2$, and 7. Like Terms: Terms that have the same variable raised to the same power. For example, $2x$ and $-5x$ are like terms, but $3x$ and $4y$ are not. Adding/Subtracting Monomials: You can add or subtract monomials by combining like terms. For example, $3x + 5x = 8x$ and $6y^2 - 2y^2 = 4y^2$.	Monomial: An algebraic expression with only one term. Examples include $4x, -3y^2$, and 7. Multiplying Monomials: To multiply monomials, multiply the coefficients (numbers) and add the exponents of like bases. For example, $3x^2 \times 2x^3 = 6x^5$. Dividing Monomials: To divide monomials, divide the coefficients and subtract the exponents of like bases. For example, $\frac{10x^5}{2x^2} = 5x^3$. Laws of Exponents: • $a^m \times a^n = a^{m+n}$ (Product of Powers) • $\frac{a^m}{a^n} = a^{m-n}$ (Quotient of Powers)	$x+2$, $3y-5$, and $2a+4b$. Distributive Property: A property that allows you to multiply a single term by each term within parentheses. For example, $3(x+4)=3x+12$. Multiplying Monomials with Binomials: Use the distributive property to multiply the monomial by each term in the binomial. For example, $2x(3x+4)=6x^2+8x$. Multiplying Binomials with Binomials: Apply the distributive property twice, or use the FOIL method (First, Outer, Inner, Last) to multiply the terms. For example, $(x+3)(x+2)=x^2+2x+3x+6=x^2+5x+6$. Multiplying Binomials with Multi-	Square of a Binomial: $(a+b)^2 = a^2 + 2ab + b^2$ $(a-b)^2 = a^2 - 2ab + b^2$ Example: $(x+3)^2 = x^2 + 6x + 9$ Product of the Sum and Difference of the Same Terms: $(a+b)(a-b) = a^2 - b^2$ Example: $(x+4)(x-4) = x^2 - 16$	Factoring: the reverse process of getting the product of any number or algebraic expression. Factoring Polynomials: describing an algebraic expression as the product of two or more expressions Common Factor: a factor that is contained in every term of an algebraic expression How to Factor a Polynomial with a Common Monomial Factor 1. Factor out the greatest common monomial of all terms of the given expression. 2. Divide each term of the expression by the greatest common factor. The resulting expression is the other factor.	

• $(a^m)^n = a^{mn}$ (Power of a

Multiplying Binomials with Multi-nomials: Use the distributive prop-

Pantabangan St., NIA Village, Sauyo, Quezon City

	The teacher will	The teacher will	The teacher will	The teacher will	The teacher will
	demonstrate how to	demonstrate how to	demonstrate how to	demonstrate how to	demonstrate how to
	answer the first three	answer the first three	answer the first three	answer the first three	answer the first three
Davidaning Magtany	items in the Practice	items in the Practice	items in the Practice	items in the Practice	items in the Practice
Developing Mastery	Exercises. Some	Exercises. Some	Exercises. Some	Exercises. Some	Exercises. Some
	students will be called to	students will be called to	students will be called to	students will be called to	students will be called to
	show their solutions on	show their solutions on	show their solutions on	show their solutions on	show their solutions on
	the board.	the board.	the board.	the board.	the board.
	Seatwork: Answer the	Seatwork: Answer the	Seatwork: Answer the	Seatwork: Answer the	Seatwork: Answer the
	remaining items in the	remaining items in the	remaining items in the	remaining items in the	remaining items in the
	Practice Exercises.	Practice Exercises.	Practice Exercises.	Practice Exercises.	Practice Exercises.
D. Application (Group or Individual Activity)	Practice Exercises 1.4 Simplify each of the following expressions by adding or subtracting the monomials. 1. $3x + 4x$ 2. $5y - 2y$ 3. $7a + 2a$ 4. $6m - 4m$ 5. $9p + 3p$ 6. $8q - 5q$ 7. $2r + 7r$ 8. $10s - 6s$ 9. $4t + 5t$ 10. $11v - 3v$	Practice Exercises 1.5 Simplify each of the following expressions by multiplying or dividing the monomials. 1. $3x^2 \times 4x^3$ 2. $5y^4 \times 2y^2$ 3. $6a^3 \times 3a$ 4. $8m^5 \times m^2$ 5. $9p^2 \times 2p^3$ 6. $\frac{10x^6}{2x^2}$ 7. $\frac{15y^4}{3y^2}$ 8. $\frac{12a^5}{4a^2}$ 9. $\frac{18m^3}{6m}$ 10. $\frac{20p^7}{5p^3}$	Practice Exercises 1.6 Simplify each of the following expressions by using the distributive property to multiply the monomials, binomials, or multinomials. 1. $4x(x+5)$ 2. $3y(2y-7)$ 3. $2a(a+3b)$ 4. $5m(2m-4)$ 5. $(x+2)(x+6)$ 6. $(3y-4)(y+2)$ 7. $(2a+5)(a+3b)$ 8. $(4x-3)(2x+7)$ 9. $(x+1)(x^2+2x+3)$ 10. $(2y-5)(y^2+4y+1)$	Practice Exercises 1.7 Use the special product patterns to simplify the following expressions. 1. $(x+5)^2$ 2. $(y-3)^2$ 3. $(2x+7)^2$ 4. $(3y-4)^2$ 5. $(a+6)^2$ 6. $(m-8)^2$ 7. $(x+4)(x-4)$ 8. $(2y+3)(2y-3)$ 9. $(5a+2)(5a-2)$ 10. $(3m+7)(3m-7)$	Practice Exercises 1.8.1 Factor the following polynomials completely. 1. $3x + 6$ 2. $12x^4 + 8x^3y + 4x^2y^2$ 3. $3x^3 - 6x^2 + 3x$ 4. $6y^3z + 7y^2z^2 + 2yz^3$ 5. $12x^3 + 9x^2y + 6xy^2$ 6. $2x^3 - 8x^2 + 4x$ 7. $12x^4 + 18x^3y + 6x^2y^2$ 8. $35x^3 - 7x^2 + 14x$ 9. $8y^3z + 16y^2z^2 + 24yz^3$ 10. $18x^3 + 9x^2y + 36xy^2$
E. Wrap up 1. Generalization 2. Giving of instructions on students' assigned tasks	Search and study about Multiplying and Dividing Simple Monomials and Deriving the Laws of Exponents.	Search and study about Multiplying Monomials and Binomials Using the Distributive Property.	Search and study about Using Special Product Patterns to Multiply Binomials.	Search and study about Factoring Polynomials with a Common Monomial Factor.	Search and study about Factoring Polynomials as Difference of Two Squares.

Pantabangan St., NIA Village, Sauyo, Quezon City

	In a sheet of paper,	In a sheet of paper,	In a sheet of paper,	In a sheet of paper,	In a sheet of paper,
	answer the Activity.	answer the Activity.	answer the Activity.	answer the Activity.	answer the Activity.
F. Evaluation	Activity 1.4 Simplify each of the following expressions by adding or subtracting the monomials. 1. $5x + 2x$ 2. $8y - 3y$ 3. $4a + 6a$ 4. $9m - 5m$ 5. $6p + 7p$ 6. $12q - 4q$ 7. $3r + 9r$ 8. $15s - 7s$ 9. $7t + 8t$ 10. $14v - 2v$	Activity 1.5 Simplify each of the following expressions by multiplying or dividing the monomials. 1. $2x^3 \times 5x^2$ 2. $4y^3 \times 3y^4$ 3. $7a^2 \times 2a^3$ 4. $9m^4 \times 2m^3$ 5. $8p^5 \times p^2$ 6. $\frac{14x^5}{7x^2}$ 7. $\frac{21y^6}{3y^3}$ 8. $\frac{16a^4}{4a}$ 9. $\frac{24m^2}{8m}$ 10. $\frac{30p^8}{10p^4}$	Activity 1.6 Simplify each of the following expressions by using the distributive property to multiply the monomials, binomials, or multinomials. 1. $2x(3x + 4)$ 2. $5y(4y - 6)$ 3. $3a(a + 2b)$ 4. $6m(3m - 5)$ 5. $(x + 3)(x + 4)$ 6. $(2y - 5)(y + 3)$ 7. $(3a + 4)(a + 2b)$ 8. $(5x - 2)(3x + 6)$ 9. $(x + 2)(x^2 + 3x + 1)$ 10. $(3y - 4)(y^2 + 5y + 2)$	Activity 1.7 Use the special product patterns to simplify the following expressions. 1. $(x + 4)^2$ 2. $(y - 2)^2$ 3. $(3x + 5)^2$ 4. $(2y - 6)^2$ 5. $(a + 7)^2$ 6. $(m - 9)^2$ 7. $(x + 3)(x - 3)$ 8. $(3y + 2)(3y - 2)$ 9. $(4a + 1)(4a - 1)$ 10. $(5m + 6)(5m - 6)$	Activity 1.8.1 Factor the following polynomials completely. 1. $15xy + 6y$ 2. $18x^3 + 8x^4y + 14x^2y^3$ 3. $6x^4 - 15x^2 + 18xy$ 4. $12y^3z + 15y^2z^2 + 3yz^4$ 5. $15x^3 + 10x^2y + 5xy^2$ 6. $6x^4 - 9x^2 + 12xy$ 7. $14x^3 + 7x^4y + 49x^2y^3$ 8. $5x^4 - 15x^2 + 20xy$ 9. $18y^3z + 45y^2z^2 + 36yz^4$ 10. $12x^4 - 8x^2 + 28xy$
	Assignment: Review the	Assignment: Review the	Assignment: Review the	Assignment: Review the	Assignment: Review the
H. Reinforcement or Remediation Activity	lesson and prepare for seatwork.	lesson and prepare for seatwork.	lesson and prepare for seatwork.	lesson and prepare for seatwork.	lesson and prepare for seatwork.
VI. REMARK/AN-					
NOTATION (Write a	Objectives have been	Objectives have been	Objectives have been	Objectives have been	Objectives have been
remark every day	Attained:	Attained:	Attained:	Attained:	Attained:
whether the objectives	Not attained due to	Not attained due to	Not attained due to	Not attained due to	Not attained due to
have been attained or					
not).					
REFLECTION of PREVIOUS WEEK's LESSON	reflectionBacolod				

Prepared by: Checked by:

Noted by:

JONATHAN R. BACOLOD Teacher I LORETO R. DOMINGO, EdD Master Teacher II, Math CECILE N. SISON Head Teacher III, Math $\begin{array}{c} \text{MERYGEE L. JAVIER, PhD} \\ \text{Principal IV} \end{array}$