



Lesson Exemplar for Mathematics

Quarter 1 Lesson

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IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 1: Lesson 3 (Week 3) SY 2024-2025

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MATHEMATICS / QUARTER 1 / GRADE 4

I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES			
A	. Content Standards	The learners should have knowledge and understanding of the perimeter of quadrilaterals and composite figures composed of triangles and quadrilaterals.	
В	 B. Performance Standards By the end of the quarter, the learners are able to find the perimeter of quadrilaterals and composite figures composed of triangles and quadrilaterals 		
С	Learning Competencies and Objectives	 Find the perimeter of quadrilaterals that are not squares or rectangles At the end of the lesson, the learners will be able to: calculate the perimeter of parallelograms; give the formula for finding the perimeter of a parallelogram, rhombus, trapezoid, and other trapezoidal shapes; solve for the perimeter of quadrilaterals such as parallelogram, rhombus, and trapezoid; follow the correct formulas in solving for the perimeter of quadrilaterals. 	
D	. Content	Perimeter of Quadrilaterals (Parallelogram, Rhombus, and Trapezoid)	
E	. Integration	Arts, Woodworking	

II. LEARNING RESOURCES

eSpark. (2023, February 2). Quadrilateral Song | Geometry and Polygons | 2nd-3rd Grade Math | eSpark Music. YouTube. https://www.youtube.com/watch?v=MpDSqtD4DNg

Quadrilateral Hierarchy. (2023, August 3). Math Monks. <u>https://mathmonks.com/quadrilateral/quadrilateral-hierarchy</u>

A. Activating Prior Knowledge DAY 1 1. Short Review Show students the Quadrilateral family and ask if they remember it. DAY 1 You can also sust of the processing Questions: 1. Can you identify a real-world object that matches each type of quadrilateral (e.g., square, rectangle, rhombus, trapezoid/trapezium, parallelogram, dependence DAY 1	start the lesson by ort clip for a drilaterals. <u>.youtube.com/wat</u> tD4DNg&ab_chan

	 2. Describe the object and explain why it fits the definition of that specific quadrilateral. For example, you might think of a square tile for a square or a kite toy for a kite. 3. How do the properties of these objects align with the geometric properties of the corresponding quadrilaterals? 2. Feedback (Optional) 2. Feedback (Optional) DAY 1 1. Lesson Purpose Show images of everyday objects and structures that have quadrilateral shapes, such as a picture frame (rectangle), a diamond-shaped window (rhombus), a tabletop (parallelogram), and a trapezoidal garden bed. Ask the following: Have you ever wondered how much material is needed to frame a picture? Why do builders need to know the perimeter of different shapes when constructing buildings?" 		Quadrilateral Family Tree Quadrilateral Family Tree Quadrilateral Two parallel sides Trapezoid Rectangle Rectangle Square
B. Establishing Lesson Purpose			DAY 1 After asking, you may explain the purpose of the lesson: By the end of this lesson, you will be able to determine the amount of material needed to go around the edges of these shapes. This skill is helpful in many real-life situations, such as building, crafting, and designing games!
	Column A Perimeter Quadrilateral Parallelogram Formula Square	 Column B a. A four-sided polygon b. The total distance around the edge of a shape c. A mathematics rule expressed in symbols d. A quadrilateral with opposite sides that are parallel and equal in length e. Four equal sides and angle 	Answers: 1. b 2. a 3. d 4. c 5. e

C. Developing and Deepening Understanding	 DAY 2 SUB-TOPIC 1: Parallelograms and Rhombus 1. Explicitation Mang Pedro planted his vegetable garden with varieties of vegetable seedlings for his family. His garden is in the shape of a parallelogram with a length of 50 m and a width of 20 m. What is the total distance around Mang Pedro's vegetable garden? a. What did Mang Pedro do to his vegetable garden? b. Why did he plant his garden with varieties of vegetable seedlings? c. What is asked in the problem? d. What are the given facts that can help you solve the problem? e. What can you say about Mang Pedro? 	 DAY 2 Present a simple story problem for them to read, analyze, and solve. Guide learners using the processing questions provided. The following questions are SOLO questions from Unistructural to Relational. You may use this type of question to further assist the students learning. Present a visual representation of the parallelogram-shaped garden as illustrated
	Explain that the perimeter is the total distance around a closed plane figure. To determine the perimeter of the vegetable garden of Mang Pedro, follow these steps: 1. Identify the length and the width of the garden. Length= 50 m Width = 20 m 2. Add the measurements of all the sides of the garden. Since the figure has 4 sides, we say that, Perimeter = length + length + width + width. Then P= 1 + 1 + w + w 3. Using the formula you developed, substitute the measurement of each side, then add. P = 1 + 1 + w + w $P = 50 m + 50 m + 20 m + 20 m$ $P = 140 m$ Therefore, the perimeter or the distance around Mang Pedro's vegetable garden is 140 meters. Perimeter of Parallelogram: The perimeter of a parallelogram is calculated by adding the lengths of all its sides, as opposite sides are equal in length. Thus, you only need to know the lengths of two adjacent sides. $P = 1 + 1 + w + w$ $P = (2 \times \text{length}) + (2 \text{ x width}) \text{ or } P = 21 + 2w$	 Elicit Formulas Through Inquiry using Guided Discovery: <i>For a parallelogram:</i> prompt students with the following questions: "How many sides does a parallelogram have?" "What do you notice about the opposite sides of a parallelogram?" "If we know the lengths of the adjacent sides, how can we find the total perimeter?" Guide them to derive: P=2(a+b) P = 2 (a + b)





	 2. Worked Example Example 1. My brother bought a trapezoidal frame with the following measurements: 60 cm, 65 cm, 80 cm, and 95 cm. What is its perimeter? a. Who bought a frame? b. What is the shape of the frame? c. What is asked in the problem? d. What are the given facts that can help you solve the problem? e. What are the measurements of the sides of the frame? The measurements of the sides of the frame are as follows: 60 cm, 65 cm, 80 cm, and 95 cm. 3. Lesson Activity See Worksheet Activity No. 3 	 and d are the lengths of the four sides. Present a visual representation of the trapezoidal frame and explain its characteristics, emphasizing the four different measurements of its lengths. What will you do again with the sides to find its perimeter?<i>Add all the sides</i>. Call one pupil to show the correct formula and the number sentence of it Lesson Activity No. 3 Answer: 1.32 cm 63 cm 49 cm 20 cm 36 cm II.1. C A C A
D. Making Generalizations	 DAY 3 1. Learners' Takeaways What is Perimeter? How do we solve for the perimeter of a closed figure such as a parallelogram? rhombus? trapezoid? 	
	2. Reflection on Learning When was the last time you miscalculated the perimeter of a shape like a rectangle, square, or trapezoid? How did you realize your mistake and what did you do to fix it?	





	2. Homework Creating Geometric Art Design Phase: Student trapezoid, and parallel deciding where each sh			
B. Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	The teacher may take note of some observations related to the effective practices and problems encountered after utilizing the different strategies, materials used, learner engagement, and other related stuff.
	strategies explored			
	materials used			
	learner engagement/ interaction			Teachers may also suggest
	others			activities explored/lesson exemplar.
C. Teacher's Reflection	 Reflection guide or prompt can be on: <u>principles behind the teaching</u> What principles and beliefs informed my lesson? Why did I teach the lesson the way I did? <u>students</u> What roles did my students play in my lesson? What did my students learn? How did they learn? <u>ways forward</u> What could I have done differently? What can I explore in the next lesson? 			Teacher's reflection in every lesson conducted/facilitated is essential and necessary to improve practice. You may also consider this as an input for the LAC/Collab sessions.