DAILY LESSON LOG OF M9GE-IIIc-1 (Day 4)

	School		Grade	Level	Gr	ade 9	
	Teacher		Learning	g Area	М	athematics	
	Teaching Date and Time			uarter	Fir		
	I. OBJECTIVES	Objectives must be met over the week and connected to the curriculum standards. To meet the objectives, necessary procedures must be followed and if needed, additional lessons, exercises and remedial activities may be done for developing content knowledge and competencies. These are assessed using Formative Assessment Strategies. Valuing objectives support the learning of content and competencies and enable children to find significance and joy in learning the lessons. Weekly objectives shall be derived from the curriculum auides.					
Α.	Content Standards	The learner demonstrates understanding of key concepts of parallelograms and triangle similarity.					
B.	Performance Standards	The learner is able to investigate, analyze, and solve problems involving parallelograms and triangle similarity through appropriate and accurate representation.					
C.	Learning Competencies/ Objectives	 Learning Competency: Proves theorems on the different kinds of parallelogram (rectangle, rhombus, square). (M9GE-IIIc-1) Learning Objectives: Identify the theorems that are related to a rectangle, to a rhombus, and to a square Find unknown quantities of a rectangle, rhombus, or square Demonstrate the value of cooperation in doing the activities 					
II.	CONTENT	Theorems on the Differ	rent Kinds of Parallelo	gram			
III.	LEARNING RESOURCES						
Α.	References						
	1. Teacher's Guide						
	2. Learner's Materials						
	3. Textbook pages						
	4. Additional Materials from Learning Resource (LR) portal						
B.	Other Learning Resources						
IV.	PROCEDURES	These steps should be done across the week. learning by the pupils/ students which you multiple ways to learn new things, practice t experiences and previous knowledge. Indicate	can infer from formative assessment active he learning, question their learning process	vities. Sustain le	earning sy	stematically by providing	pupils/students with
A.	Review previous lesson or presenting the new lesson	The teacher lets the st square by letting them Put a check (√) mark parallelograms. Prope 1. Opposite sides are 2. Opposite sides are 3. Opposite angles are 4. Consecutive angles 5. Diagonals bisect ea 6. All angles are right 7. Diagonals are congrue 9. Diagonals bisect op 10. Diagonals are per other.	do the exercise below k to indicate which erty parallel. congruent. e congruent. are supplementary. ch other. angles. ruent. posite angles.	v.	y is	_	

		П	1	1		
		11. Each diagonal divides the				
		quadrilateral into two congruent				
		triangles.				
		Answer Key:				
		Property	Rectangle	Rhombus	Square	
		1. Opposite sides are parallel.	\(\sigma\)	\ \sqrt{\lambda}	J	
		2. Opposite sides are congruent.	V	\ \ \ \ \	$\sqrt{}$	
		3. Opposite angles are congruent.	V	1	$\sqrt{}$	
		4. Consecutive angles are supplementary.	V	1	$\frac{1}{\sqrt{1}}$	
		5. Diagonals bisect each other.	V	V	$\sqrt{}$	
		6. All angles are right angles.	V	,	√	
		7. Diagonals are congruent. √ √				
		8. All sides are congruent.	'	√	, √	
		9. Diagonals bisect opposite angles.	<u> </u>	V	$\sqrt{}$	
		10. Diagonals are perpendicular to each		,	· .	
		other.		√ √	√	
		11. Each diagonal divides the				
		quadrilateral into two congruent	$\sqrt{}$	√ √	$\sqrt{}$	
		triangles.				
			•			
В.	Establishing a purpose	The teacher lets the students realize				
	for the lesson	parallelogram, a rectangle, a rhombus a	nd a square	with each	other are	
		important principles needed in finding their	unknown qu	antities.		
C.	Presenting examples/					
	instances of the new					
	lesson					
D.	Discussing new concepts					
	and practicing new skills					
	#1					
E.	Discussing new concepts					
	and practicing new skills					
	#2					
		The teacher lets the students, in groups of	of three, ansv	wer Activity	1 attached	
		herewith.				
		Answer:				
		I.				
		1. Rectangle, Square 4. Rectangle, Square				
		2. Rhombus, Square 5. Square				
		3. Rhombus, Square 6. Rhombus, Square				
_	Developing masters	II. A.				
F.	Developing mastery					
	(leads to formative	1. BD = AC	2. AC	= BD		
	assessment 3)	BD = 12 cm $3x - 12 = 15$				
		3x = 15 +12				
		3x = 27				
		x = 9				
			•	-		
		В.				
		1. P = 4(YZ) 2. ∠YXR = ½ (∠	∠YXW) 3.	∠YRZ = 90°)	
		∠YXR = ½ (4	18°)	2x-20 = 90		
		$P = 4 (5)$ $\angle YXR = 24^{\circ}$		2x = 90	+ 20	
		P = 20 cm				
		1				

		2x = 110	
			$x = 55^{\circ}$
		The teacher asks the students:	
C.	Finding practical		
	applications of concepts		at has a perimeter of 12 m. What is the
	and skills in daily living	area of the garden?"	
	u	Anguari	
		Answer: 16 sq. meters	
		The teacher summarizes the correlation	of the theorems related to a restangle
	Making generalizations and abstractions about the lesson	to a rhombus and to a square thru the Ve	-
			1
D.		parallelograms	
		rhombuses rectangles	
		squares FT	
		The teacher lets students answer individ	ually the exercise below.
			,
		I. Complete each statement. Use the w	ords rectanale, rhombus, or sauare.
		A parallelogram with congruent	
		2. Every square is a and a	
ı			le, then it has four right angles and the
		parallelogram is a	re, then it has roun right ungles and the
			are perpendicular bisectors of
		each other.	are perpendicular bisectors of
		5. A parallelogram that is equilater	al and equiangular is a
		5. A parallelogram that is equilater	ai and Equiangular is a
	Evaluating Learning	II. Solve the following. Show your solut	ion
			nals MT and AH intersecting at U. If HU =
		2.5 cm,	MA
		1. how long is HA?	
		2. how about MT?	U
		2. now about mi.	н
		B. LOVE is a square with diagonals	LV and OE intersecting at R.
E.		If LV = $(x + 2)$ cm and OE = $(2x - 2)$	
		1. what is the value of x?	
		2. how long is LV?	L
		3. how long is RE?	
		4. what is the measure of ∠ER'	V?
			, v
		Answer Key:	,
		l.	
		1. rectangle, square	
		2. rectangle, rhombus	
		3. rectangle	
		4. rhombus, square	
		5. square	
		II.	
		A1. HA = 2HU = 2(2.5) = 5 cm	A2. MT = HA = 5 cm
		B1. LV = OE	B2. LV = x + 2
		L DI.LV = UE	DA. $LV = X + A$
		x + 2 = 2x - 1 2 + 1 = 2x - x	LV = 3 + 2 LV = 5 cm

		B3. RE = ½ (OE) , OE = LV = 5 cm B4. ∠ERV = 90° RE = ½ (5) RE = 2.5 cm
F.	Additional activities or remediation	The teacher groups the student with four members each. He/She assigns them to bring the following: • 4 short bondpapers • 1 pencil • 1 ruler • Adhesive tape • Protractor • A pair of scissors
V.	REMARKS	
VI.	REFLECTION	Reflect on your teaching and assess yourself as a teacher. Think about your students' progress. What works? What else needs to be done to help the pupils/students learn? Identify what help your instructional supervisors can provide for you so when you meet them, you can ask them relevant questions.
l.	No. of learners who earned 80% of the evaluation	
I.	No. of learners who require additional activities for remediation who scored below 80%	
I.	Did the remedial lesson work? No. of learners who have caught up with the lesson.	
V.	No. of learners who continue to require remediation	
V.	Which of my teaching strategies worked well? Why did these work?	
Ι.	What difficulties did I encounter which my principal or supervisor can help me solve?	
I.	What innovation or localized materials did I use/ discover which I wish to share with other teachers	garden

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Activity 1

I. List which of the following parallelograms for which the statement is **ALWAYS TRUE**.

RECTANGLE RHOMBUS SQUARE

- 1. All its angles are right.
- 2. The diagonals bisect opposite angles.

- 3. It is equilateral.
- 4. The diagonals are congruent.
- 5. It is equiangular and equilateral.
- 6. The diagonals are perpendicular bisectors of each other.
- II. Solve the following. Show your solution.
 - A. ABCD is a rectangle with diagonals AC and BD intersecting at P.
 - 1. If AC = 12 cm, how long is BD?
 - 2. If AC = 3x 12 and BD = 15, what is the value of x?
 - B. WXYZ is a rhombus with diagonals XZ and WY intersecting at R.
 - 1. If YZ = 5 cm, what is the perimeter of the rhombus?
 - 2. If $\angle YXW = 48^{\circ}$, what is the measure of $\angle YXR$?
 - 3. If \angle YRZ = $(2x 20)^0$, what is the value of x?

