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

	School		Grade Level	Grade 9
	Teacher		Learning Area	Mathematics
	Teaching Date and Time		Quarter	First
	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 guides.		
Α.	Content Standards	The learner demonstrates understanding of key concepts of parallelograms and triangle similarity.		
В.	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: Choose the right statements and reasons to complete the 2-column proof of a theorem on rectangle Apply the theorem on rectangle to solve an unknown quantity; and Demonstrate appreciation of proving a theorem. 		
II.	CONTENT	Theorem on Rectangle		
III.	LEARNING RESOURCES	teacher's guide, learner's module		
Α.	References			
	1. Teacher's Guide			
	2. Learner's Materials	Pages 217 - 218		
	3. Textbook pages			
	4. Additional Materials from Learning Resource (LR) portal			
В.	Other Learning Resources			
IV.	PROCEDURES	of learning by the pupils/ students which ye	 Spread out the activities appropriately so that pupils/stu ou can infer from formative assessment activities. Sustain the learning, question their learning processes, and draw cate the time allotment for each step. 	learning systematically by providing pupils/students with
A.	Review previous lesson or presenting the new lesson	page 320 of the LM. He the questions from the Answer: 1. ∠OHE=90°; ∠PEH 2. Students response They all r They are 3. Roughly, both mes	$H=90^{\circ}$ es may vary: neasure 90° . all right angles. asure 11.7 cm	s as they find the answers to
		sides are parallel. 5. Rectangle	e definition of a parallelogra	
В.	Establishing a purpose for the lesson	The teacher lets the students realize that the properties of a parallelogram still holds TRUE to a rectangle and they are necessary elements in understanding the theorems on rectangles.		
C.	Presenting examples/ instances of the new lesson		students, in groups of the e Activity 1 (Prove It!!) attach	ree, complete the proof of ed herewith.
		Stateme	nts	Reasons

D.	Discussing new concepts	 □WINS is a parallelogram with which ∠W is a right angle. ∠W ≅∠N and ∠I ≅∠S m∠S = 90 ∠I, ∠N, and ∠S are right angles. The teacher discusses with the students to the students to the students.	,
	and practicing new skills #1	He/She asks the students justify their choices of statements and reasons.	
E.	Discussing new concepts and practicing new skills #2		
F.	Developing mastery (leads to formative assessment 3)	In a parallelogram, opposite sides ar	ents: ΔWSN ΔINS d WSN = 90° ns: nsitive Property e congruent. inition of a rectangle.
G.	Finding practical applications of concepts and skills in daily living		
Н.	Making generalizations and abstractions about the lesson	The teacher emphasizes that the theorems on rectangles were additional properties of a rectangle. The teacher explains briefly the importance of proving theorems as they are statements deduced from other laws, postulates or definitions.	
l.	Evaluating Learning	Using the situation below, the teacher lets the students answer the questions orally. □SACK is a square with diagonals \overline{AK} and \overline{SC} . 1. Is □SACK a rectangle? Justify your answer. 2. If $\overline{AK} = 12$ cm, how long is \overline{SC} ? Answers: 1. Yes. □SACK is a square and this means that it is a parallelogram with all its angles right. This means that it has the conditions stated in theorem 1. Thus, □SACK is a rectangle. 2. 12 cm	

J.	Additional activities or remediation	
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.
A.	No. of learners who earned 80% of the evaluation	
В.	No. of learners who require additional activities for remediation who scored below 80%	
C.	Did the remedial lesson work? No. of learners who have caught up with the lesson.	
D.	No. of learners who continue to require remediation	
E.	Which of my teaching strategies worked well? Why did these work?	
F.	What difficulties did I encounter which my principal or supervisor can help me solve?	
G.	What innovation or localized materials did I use/ discover which I wish to share with other teachers	Box, wood
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Prepared by:

JESSA MAE A. RICARTE

Cabancalan National High School

Activity 1 Prove It!!

Theorem 1: If a parallelogram has a right angle, then it has four right angles and the parallelogram is a rectangle.

Directions: Complete the proof of Theorem 1 using the statements and reasons found in the box below the 2-column table.

Given: \square WINS is a parallelogram with which \angle W is a right angle.

S

Prove: \square WINS is a rectangle.

Proof:

n

3. $\angle W = 90^{\circ}$	3.
4.	4. In a parallelogram, opposite angles are congruent.
5. m∠W = m∠N, and	5.
m∠I = m∠S	
6. m∠N = 90	6.
7. m∠W + m∠I = 180	7.
8. 90 + m∠l = 180	8.
9. m∠I = 90	9.
10.	10. Transitive Property
11.	11. Definition of a right angle.
12. □WINS is a rectangle	12.

Statements:

mS = 90 I, N, and S are right angles.

□WINS is a parallelogram with which W is a right angle. W N and I S

Reasons:

Subtraction PropertyTransitive PropertySubstitution PropertyIn a parallelogram, adjacent angles are supplementary.Definition of a rectangle.Definition of congruent angles.GivenDefinition of a right angle.