



Lesson Exemplar for Mathematics

Quarter 2 Lesson

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IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 2: Lesson 1 (Week 1) SY 2024-2025

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MATHEMATICS / QUARTER 2 / GRADE 4

I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES				
A. Content Standards	 The learners should have knowledge and understanding of Multiplication of whole numbers with products up to 1 000 000, division of up to 4-digit numbers by up to 2-digit numbers, and the MDAS rules. 			
B. Performance Standards	 By the end of the quarter, the learners are able to perform multiplication of whole numbers with products up to 1 000 000. perform division of up to 4-digit numbers by up to 2-digit numbers. perform different operations by applying the MDAS rules. 			
C. Learning Competencies and Objectives	 Multiplying numbers with and without regrouping: a. 3- to 4-digit numbers by a 1-digit number, and b. 2- to 3-digit numbers by 2-digit numbers, with products up to 1 000 000. Estimate the result of multiplying two numbers where the product is less than 1 000 000. 			
D. Content	A. Multiplying Whole NumbersB. Estimating Products			
E. Integration	Principles of Values Education/Christian Living Education			

II. LEARNING RESOURCES

Bennett, L. B. A. (2013). Mathematics for Elementary Teachers: A Conceptual Approach. McGraw-Hill.
Book Creator. (2011). Reflect 3-2-1. *Book Creator*. <u>https://bookcreator.com/graphic_organizers/reflect-3-2-1/</u>
Math Songs by NUMBEROCK. (2018, January 25). Long Multiplication Song | Multi-Digit Multiplication [Video]. *YouTube*. <u>https://www.youtube.com/watch?v=9dYXfZZsbzc</u>

Other Learning Resources needed for this lesson: Whiteboard or Show-Me-Board, marker and eraser, worksheets and math blocks

III. TEACHING AND LEA	NOTES TO TEACHERS	
A. Activating Prior Knowledge	DAY 1 1. Short Review Instruction: Write the letter corresponding to the product on the line to complete the quotation. 1) 5 x 1 = N 2) 3 x 6 = D 3) 8 x 7 = E 4) 4 x 9 = F 5) 7 x 7 = L 6) 3 x 4 = T 7) 8 x 2 = O "Keep putting out good. It will come back to you 12 56 5 36 16 49 18 • What word were you able to form? • What is meant by this word?	This lesson is good for two days. For this activity, the students need to complete the quotation.
	2. Feedback (Optional)	The teacher will elaborate on the students' answers.
B. Establishing Lesson Purpose	 1. Lesson Purpose Problem Opener: A civic organization would like to help a school needing chairs for their pupils. Each of the 83 member volunteers will donate 35 chairs. How many chairs will be donated in all? How will you get the total number of donated chairs? From the responses, which will give you the answer easily? Why? What is the answer to the problem? Today we will lean about strategies in multiplying numbers.	Possible answers: a) Repeated addition b) Skip counting c) Multiplication







A PowerPoint presentation maybe used for the pictorial presentation. Animation may help in emphasizing important concepts here, like repeated addition and the product. If PPT is not possible, improvised materials will do. Guide learners in understanding the concept of multiplication using base ten blocks.

Suggested task:

- 1. Form the numeral 136 using base ten blocks.
- 2. Make 4 copies of the blocks you formed in #1.
- 2. 3. The pieces will be regrouped:
 - 20 units/ones will be replaced by 2 longs, leaving 4 units/ones
 - 10 longs/tens may be replaced by 1 flat, leaving 2 longs
 - Finally, we have 5 flats (5
 - hundreds), 4 longs (4 tens), and 4 units (4 ones)

Note: During the regrouping process, you may encircle the blocks that were regrouped to guide the students on the final form of the blocks.



SUE 1. E	3-TOPIC 3: Multiplying 2- to 3-Digit by 2-Digit Number Without Regr Explicitation Let the students answer. How will you multiply 2- to 3-Digit by 2-Digit Number?	Duping This lesson is good for two days.
2 5	Norked Example	to solve the problem using Show Me Board or White board
2	Norked Example	Show we board of white board.
	a. Multiply 32 by 21 using expanded form.	
	Solution: $32 \times 21 \rightarrow 30 + 2$	Note: The video may be played
	$\frac{x - 20 + 1}{x - 20}$	before or after the discussion.
	30 + 2	
	$\frac{600+40}{60070+2} = 672$	Guide Questions for pupils on
		watching the video:
	b. Multiply 301 by 23 using standard form	1. What are the steps in the
	Solution:	multiplication process?
	$301 \ge 23 \rightarrow 301$	2. How many partial products
	x 23	are there when multiplying
	903 🕓 partial product	2 to 3-digit by 2-digit
	+ 602 🗳 partial product	numbers?
	6923	
		Watch this video:
	c. Find the product using standard form	https://www.youtube.com/wat
	Solution:	ch?v=9dYXfZZsbzc
	$112 \times 42 \rightarrow 112$	
	$\frac{x 42}{224}$	
	+ 448	
	4704	
3. I	Lesson Activity	
	A. Find the error in this multiplication problem. Explain your answer.	See Worksheet No. 3.
	Explanation:	
	1	
	34	
	x_24	
	76	



SUB-TO 1. Expl A. S What B. S B. S Can 2. Worl Find 1) 2) 3] 3. Less Fill in 1 2 3 4 5	PPIC 5: Multiplying by 10,100, 1 000 with products up to 1 000 000 icitation Study the multiplication by 10 and 100 and describe the pattern. $365 \times 10 = 3650$ t is the pattern in multiplying by 10 or 100? To multiply by 10, just annex or attach a zero to the other factor. To multiply by 100, just annex or attach 2 zeros to the other factor. Study the product of a number multiplied by 1 000. 1) $568 \times 1000 = (568 \times 10) \times s 100$ $= 5680 \times 100$ = 568 000 2) $340 \times 1 000 = 340 000$ we use the pattern on multiplying by 10 and 100 in multiplying by 1 000? To multiply by 1 000, just annex or attach 3 zeroes to the other factor. Red Example the product using the pattern.) 403×10 Solution: $403 \times 10 = 4030$ (annex 1 zero to 403)) 68×100 Solution: $250 \times 1000 = 250 000$ (annex 3 zeros to 250) on Activity n the missing number. . $6711 \times 10 = $. $582 \times $ = 58200 . $_{1} \times 1000 = 350 000$. $300 \times 1000 = $ 4 019 $\times 1000 = $	Show-me-Board Activity: (students write answer on their own writing board) This is good for a one-day lesson. Review Rounding Off and include the term approximately equal to. The teacher will ask volunteers to solve the problem on the board. The teacher will provide additional activity if necessary.
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SUB-TOPIC	C 6: Estimating	Products			
1. Explicit	ation	1 1 0 7 (1	1 . C. 1	
Wha	t is an estimate	d value? To estin	nate the pro	duct of two numbers, u	ve may
round of	f each number t	o its highest plac	e value.		
Q Worland	E				
2. WOIKeu	Example	reduct of 206 v 101			
	Solution:	Toduct of 200 x 191			
	Multiplicand	Round to the nearest hundreds	Multiplier	Round to the nearest hundreds	
	206	200	191	200	
		200 x 200	= 40,000		
	Therefore	e, 206 x 191 is approx	imately equal	to 40,000.	
	b. Estimate the	product 57 x 3,822.			
	Multiplicand	Round to the	Multiplier	Round to the	
	Multiplicant	nearest hundreds	Multiplier	nearest hundreds	
	57	60	3,822	4,000	
		60 x 4,000	= 240,000		
	c. Estimate the Solution: Round off 6,793 Then, multiply. Multiplicand	product of 6,793 x 4 to the nearest thous Round to the	5. ands and 45 to Multiplier	Round to the	
	6 793	7.000	45	50	
	0,750	7.000 x 50	= 350.000		
	Therefore	6 793 x 45 is approvi	mately equal t	350.000	
	increase,	o, so a to to upprote	matery equal t		
3. Lesson	Activity				
A. Fill i	n the missing n	umber.			See Worksheet No. 5.
1	1. 6 711 × 10 =				
2	2. 582 × = 58 200				
3	×]	000 = 350 000			
4	. 300 × 1 000 =	=			
5	6. 4 019 × 100 =	=			
I					

	 B. Estimate the product. 47 × 88 2. 9 516 × 7 506 × 39 C. Approximate the second factor so that the product will fall within the given values in the parentheses. 32 × 103 × 800, 850) 103 × 2800, 2 900) D. Solve the problem. The Grade 4 pupils and teachers will go on a field trip. They hired 5 E-jeepneys for the field trip. Each of the 5 E-jeepneys can carry 28 people. About how many people are going on the field trip? 	
D. Making Generalizations	 DAY 4 1. Learners' Takeaways Which multiplication strategy do you find easy to perform? In what situations can you use multiplication? estimation? What values did you learn from the lesson? 2. Reflection on Learning Perform the task as presented in the illustration. 	Put emphasis on the question given in activating prior knowledge activity.

IV. EVALUATING LEA	NOTES TO TEACHERS		
A. Evaluating Learning	 DAY 5 1. Formative Assessment Find the product: E 816 × 7 4 092 × 6 29 × 65 29 × 65 789 × 54 36 × 701 2. Homework (Option 1985) 	nent stimate the product. 6. 5 824 × 8 7. 466 × 75 8. 999 × 263 9. 2 008 × 914 10. 3 217 × 38	Teachers may encourage learners to have a quiz notebook to monitor learners' academic progress. The quiz notebook may also serve as homework notebook.

B. Teacher's Remarks	Note observations on any of the following areas: strategies explored materials used learner engagement/ interaction others	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. Teachers may also suggest ways to improve the different activities explored/lesson exemplar.
C. Teacher's Reflection	 <i>Reflection guide or prompt can be on:</i> <i>principles behind the teaching</i> <i>What principles and beliefs informed my lesson?</i> <i>Why did I teach the lesson the way I did?</i> <u>students</u> <i>What roles did my students play in my lesson?</i> <i>What did my students learn? How did they learn?</i> <i>ways forward</i> <i>What could I have done differently?</i> <i>What can I explore in the next lesson?</i> 			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.