SELVI NG EDG	School:	DepEdClub.com	Grade Level:	4
MATATAG	Name of Teacher		Learning Area:	MATHEMATICS
K to 10 Curriculum Weekly Lesson Log	Teaching Dates and Time:		Quarter:	Second
Weekly Lesson Log		SEPT. 30 - OCT. 4, 2024 (WEEK 1)		
I. CURRICULUM CONTENT, STANDARDS, A	AND LESSON COMPETENCIES			
A. Content Standards	<ul> <li>The learners should have knowledge and understanding of</li> <li>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.</li> </ul>			
B. Performance Standards	<ul> <li>By the end of the quarter, the learners are able to</li> <li>perform multiplication of whole numbers with products up to 1 000 000.</li> <li>perform division of up to 4-digit numbers by up to 2-digit numbers.</li> <li>perform different operations by applying the MDAS</li> </ul>			

	rules.	
C. Learning Competencies and Objectives	<ol> <li>Multiplying numbers with and without regrouping:         <ul> <li>a. 3- to 4-digit numbers by a</li> <li>1-digit number, and</li> <li>b. 2- to 3-digit numbers by</li> <li>2-digit numbers, with products up to 1 000 000.</li> </ul> </li> <li>Estimate the result of multiplying two numbers where the product is less than 1 000 000.</li> </ol>	
D. Content	A. Multiplying Whole Numbers B. Estimating Products	
E. Integration	Principles of Values Education/Christian Living Education	

## **II. LEARNING RESOURCES**

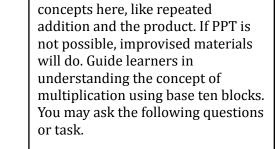
			3). Mathematics fo . Reflect 3-2-1. <i>Boo</i>		5		-	11		:-3-2	2-1/			
Math	Songs		NUMBEROCK.		January	25).		· · ·	Song	Ι	Multi-Digit	Multiplication	[Video].	YouTube.
https://www.youtube.com/watch?v=9dYXfZZsbzc														
Other Learning Resources needed for this lesson:														
W	Whiteboard or Show-Me-Board, marker and eraser, worksheets and math blocks													
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III. TEACHING AND LEARNI	NG PROCEDURE	NOTES TO TEACHERS
A. Activating Prior Knowledge	DAY 11. Short Review Instruction: Write the letter corresponding to the product on the line to complete the quotation.1) $5 \times 1 = $ N2) $3 \times 6 = $ D3) $8 \times 7 = $ E4) $4 \times 9 = $ F5) $7 \times 7 = $ L6) $3 \times 4 = $ T7) $8 \times 2 = $ O"Keep putting out good. It will come back to you12 56 5 36 16 49 18• What word were you able to form?• What is meant by this word?2. Feedback (Optional)	This lesson is good for two days. For this activity, the students need to complete the quotation. The teacher will elaborate on the students' answers.

B. Establishing Lesson Purpose	<ol> <li>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.</li> <li>1) How many chairs will be donated in all?</li> <li>2) How will you get the total number of donated chairs?</li> <li>3) From the responses, which will give you the answer easily? Why?</li> <li>4) What is the answer to the problem?</li> <li>Today we will lean about strategies in multiplying numbers.</li> </ol>	Possible answers: a) Repeated addition b) Skip counting c) Multiplication
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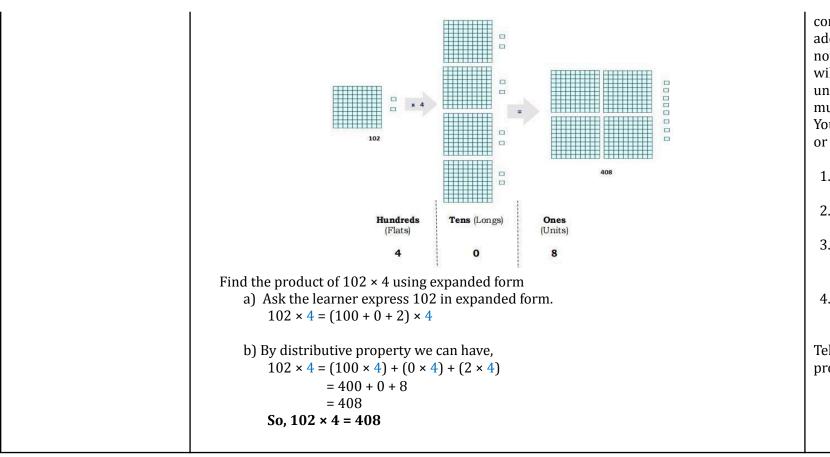
	2. Unlocking Content Vocabulary multiplication equal sign sign ↑ 15 x 3 = 45 → product Factor (multiplicand) Factor (multiplier)	Provide other examples if there is difficulty identifying the different parts.
C. Developing and Deepening Understanding	<ul> <li>DAY 1</li> <li>SUB-TOPIC 1: Multiplying 3 to 4-Digit by 1-Digit Numbers Without Regrouping</li> <li>3. Explicitation</li> <li>Find the product of 102 × 4 using pictorial representation</li> </ul>	A PowerPoint presentation maybe used for the pictorial presentation. Animation may help in emphasizing important

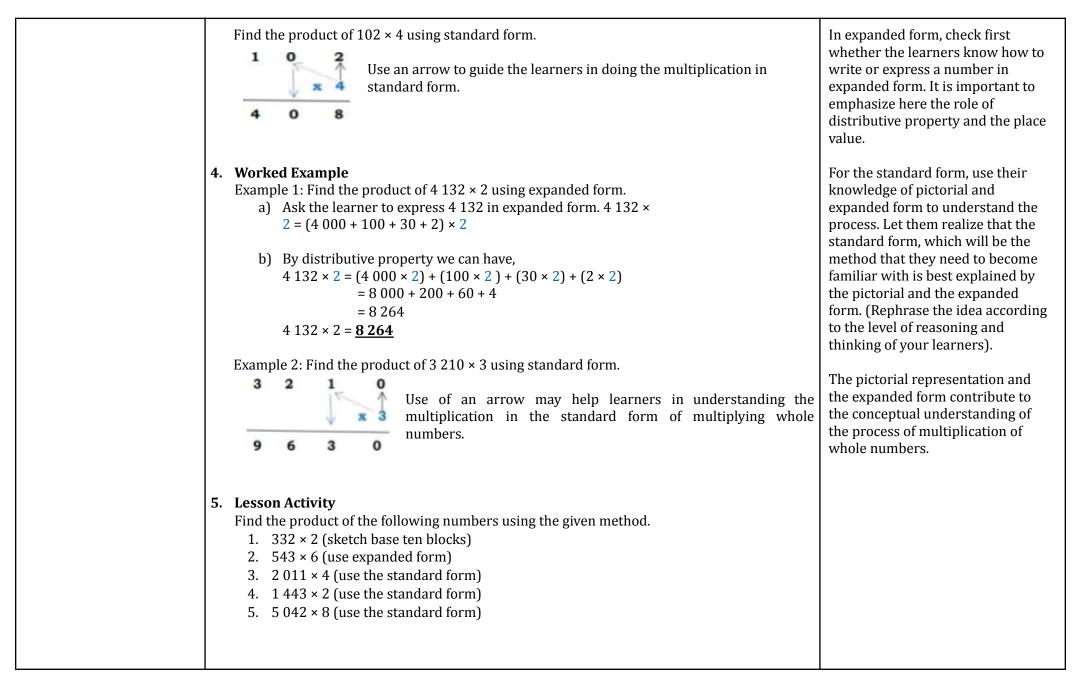


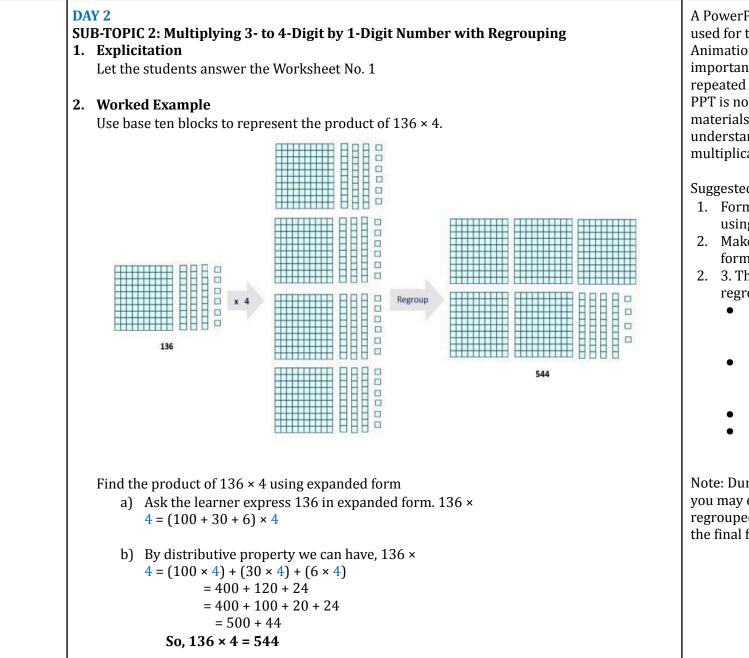


- 1. Form the numeral 102 using base ten blocks.
- 2. Make 4 copies of the blocks you formed in 1.
- 3. Rearrange the blocks so that all flats and ones are altogether.
- 4. Write the numeral that represents the blocks in 3.

Tell the students: 408 is the product of 102 x 4.





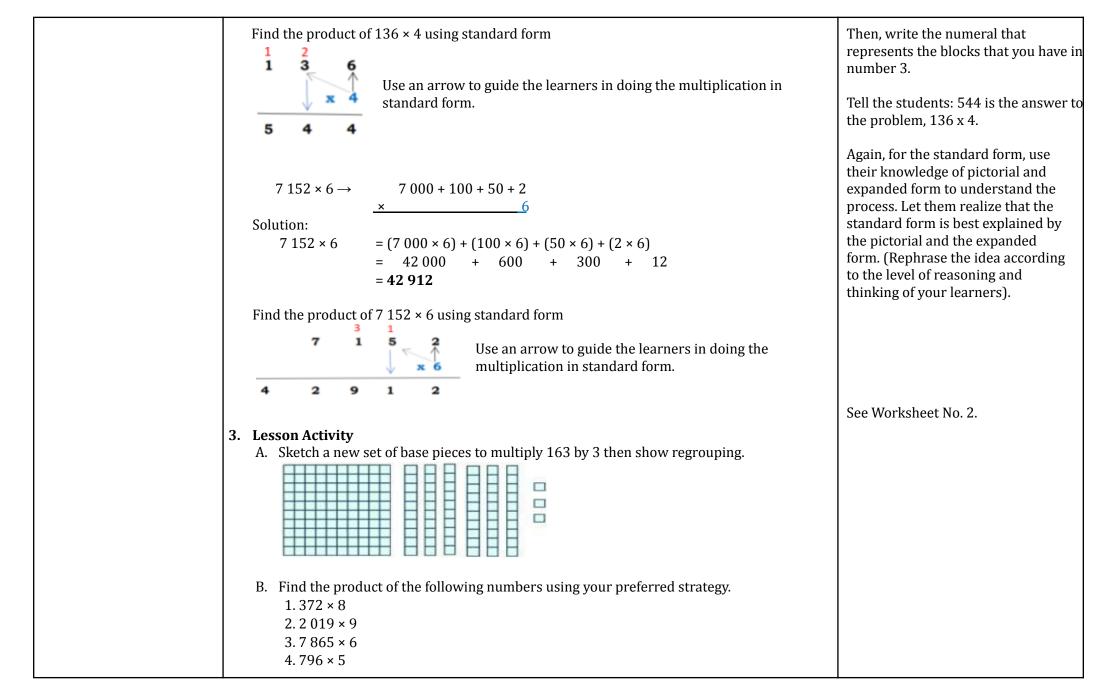


A PowerPoint presentation maybe used for the pictorial presentation. Animation may help in emphasizing important concepts here, like repeated addition and the product. If PPT is not possible, improvised materials will do. Guide learners in understanding the concept of multiplication using base ten blocks.

## 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.



5.1354 × 7
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	OPIC 3: Multiplying 2- to 3-Digit by 2-Digit Number Without Regroupin	<b>g</b> This lesson is good for two days.
	licitation	
Let	the students answer.	The teacher will ask the pupils to
	How will you multiply 2- to 3-Digit by 2-Digit Number?	solve the problem using Show Me
	, I, O, J, O	Board or White board.
2. Wo	rked Example	
	a. Multiply 32 by 21 using expanded form.	
	Solution:	Note: The video may be played befo
	$32 \times 21 \rightarrow 30 + 2$	or after the discussion.
	$\frac{x}{20+1}$	
	$\frac{x-20+1}{30+2}$	Guide Questions for pupils on
	600 + 40	watching the video:
	60070 + 2 = 672	1. What are the steps in the
	00010 + 2 - 012	
	h Multinly 201 by 02 using standard form	multiplication process?
	b. Multiply 301 by 23 using standard form Solution:	2. How many partial products are
		there when multiplying 2 to
	$301 \times 23 \rightarrow \qquad 301$	3-digit by 2-digit numbers?
	<u>x 23</u>	
	903 🕓 partial product	Watch this video:
	+ <u>602</u> partial product	https://www.youtube.com/wat
	6923	ch?v=9dYXfZZsbzc
	c. Find the product using standard form	
	Solution:	
	112 x 42 $\rightarrow$ 112	
	x <u>42</u>	
	224	
	+ 448	
	4704	
		See Worksheet No. 3.
3 100	son Activity	
	Find the error in this multiplication problem. Explain your answer.	
A. I		
	Explanation:	
	34	
	x_24	
	76	

57 x 36 -

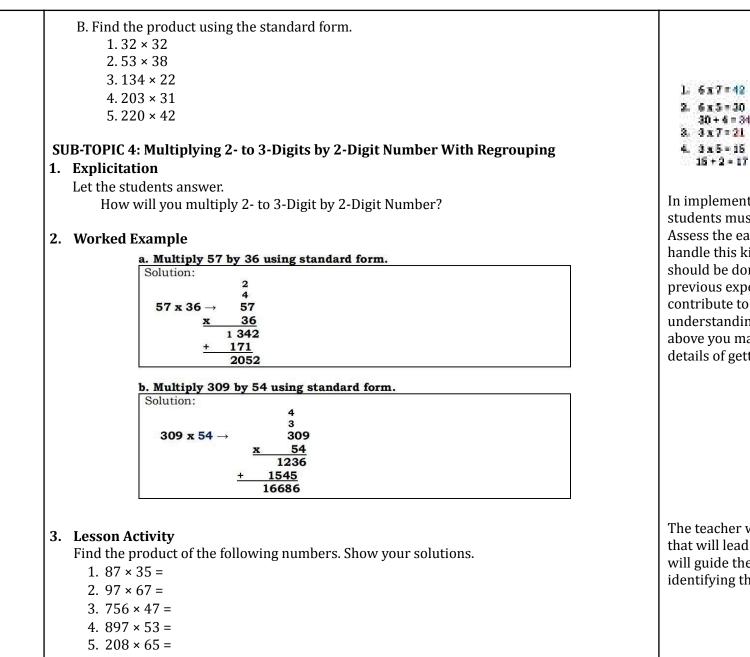
2

4

57 36

342

171



 3
 3 x 7 = 21
 2052

 4
 3 x 5 = 15
 15

 15 + 2 = 17
 2052

 In implementing this example, students must be guided properly.

 Assess the earner's readiness to handle this kind of problem. This should be done step by step; their previous experience may greatly contribute to their success in understanding the process. As shown above you may use color coding and details of getting partial products.

The teacher will provide questions that will lead to the answer. This will guide the students in identifying the pattern.

SUB-TOPIC 5: Multiplying by 10,100, 1 000 with products up to 1 000 000 <ol> <li>Explicitation         <ul> <li>A. Study the multiplication by 10 and 100 and describe the pattern. 365 × 10 = 3 650</li> <li>What is the pattern in multiplying by 10 or 100?</li> <li>To multiply by10, just annex or attach a zero to the other factor.</li> <li>To multiply by 100, just annex or attach 2 zeros to the other factor.</li> </ul> </li> <li>B. Study the product of a number multiplied by 1 000.         <ul> <li>1) 568 × 1 000 = (568 × 10) × s 100</li> <li>= 5 680 × 100</li> <li>= 568 000</li> </ul> </li> </ol>	
2) 340 × 1 000 = 340 000	
<ul> <li>Can we use the pattern on multiplying by 10 and 100 in multiplying by 1 000?</li> <li>To multiply by 1 000, just annex or attach 3 zeroes to the other factor.</li> </ul>	Show-me-Board Activity: (students write answer on their own writing
2. Worked Example	board)
Find the product using the pattern. <ol> <li>403 × 10</li> <li>Solution: 403 × 10 = 4 030 (annex 1 zero to 403)</li> <li>68 × 100</li> <li>Solution: 68 × 100 = 6 800 (annex 2 zeros to 68)</li> <li>250 × 1 000</li> <li>Solution: 250 × 1 000 = 250 000 (annex 3 zeros to 250)</li> </ol>	This is good for a one-day lesson. Review Rounding Off and include the term approximately equal to.
3. Lesson Activity         Fill in the missing number.         1. $6711 \times 10 = $	The teacher will ask volunteers to solve the problem on the board. The teacher will provide additional activity if necessary.

## SUB-TOPIC 6: Estimating Products

#### 1. Explicitation

What is an estimated value? *To estimate the product of two numbers, we may round off each number to its highest place value.* 

#### 2. Worked Example

#### a. Estimate the product of 206 x 191

Solution:

undreds	Multiplier	nearest hundreds
00	191	200
	00	

Therefore, 206 x 191 is approximately equal to 40,000.

#### b. Estimate the product 57 x 3,822.

Solution:

Multiplicand	Round to the nearest hundreds	Multiplier	Round to the nearest hundreds
57	60	3,822	4,000
	60 x 4,000	= 240,000	

Therefore, 57 x 3,822 is approximately equal to 240,000.

#### c. Estimate the product of 6,793 x 45.

Solution:

Round off 6,793 to the nearest thousands and 45 to the nearest tens. Then, multiply.

Multiplicand	Round to the nearest hundreds	Multiplier	Round to the nearest hundreds
6,793	7,000	45	50
	7,000 x 50	= 350,000	

Therefore, 6,793 x 45 is approximately equal to 350,000.

#### 3. Lesson Activity

A. Fill in the missing number.

- 1. 6711 × 10 = \_\_\_\_\_
- 2. 582 × \_\_\_\_\_ = 58 200
- 3. \_\_\_\_\_× 1 000 = 350 000
- 4. 300 × 1 000 = \_\_\_\_\_
- 5. 4 019 × 100 =

See Worksheet No. 5.

	<ul> <li>B. Estimate the product. <ol> <li>47 × 88</li> <li>2.9 516 × 7</li> <li>506 × 39</li> </ol> </li> <li>C. Approximate the second factor so that the product will fall within the given values in the parentheses. <ol> <li>32 ×</li> <li>32 ×</li> <li>103 ×</li> <li>20 103 ×</li> <li>20 103 ×</li> <li>21 103 ×</li> </ol> </li> </ul>	
	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	<ul> <li>DAY 4</li> <li>1. Learners' Takeaways <ul> <li>Which multiplication strategy do you find easy to perform?</li> <li>In what situations can you use multiplication? estimation?</li> <li>What values did you learn from the lesson?</li> </ul> </li> <li>2. Reflection on Learning <ul> <li>Perform the task as presented in the illustration.</li> </ul> </li> </ul>	Put emphasis on the question given in activating prior knowledge activity.

IV. EVALUATING LEARNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION		NOTES TO TEACHERS
A. Evaluating Learning	DAY 5 1. Formative Assessment Find the product: Estimate the product.	Teachers may encourage learners to have a quiz notebook to monitor learners'

1. $816 \times 7$ 2. $4\ 092 \times 6$ 3. $29 \times 65$ 4. $789 \times 54$ 5. $36 \times 701$	6. 5 824 × 8 7. 466 × 75 8. 999 × 263 9. 2 008 × 914 10. 3 217 × 38	academic progress. The quiz notebook may also serve as homework notebook.
2. Homework (Optional)		

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	<ul> <li>Reflection guide or prompt can be on: <ul> <li>principles behind the teaching</li> <li>What principles and beliefs informed my lesson? Why did I teach the lesson the way I did?</li> </ul> </li> <li><u>students</u> <ul> <li>What roles did my students play in my lesson? What did my students learn? How did they learn?</li> <li><u>ways forward</u></li> <li>What could I have done differently? What can I explore in the next lesson?</li> </ul></li></ul>			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.