



## Lesson Exemplar for Mathematics

Quarter 4 Lesson

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**IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM** 

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

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## MATHEMATICS / QUARTER 4 / GRADE 4

I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES						
A.	Content Standards	he learners should have knowledge and understanding of presentation and interpretation of data in tabular form and n a single line graph.				
B.	Performance Standards	By the end of the quarter, the learners are able to present and interpret data in tabular form and in a single-line graph.				
C.	Learning Competencies and Objectives	<ol> <li>Collect data with time elements using appropriate sources.</li> <li>Present data in a tabular form, or in a single line graph.</li> <li>Interpret data presented in a tabular form, or in a single line graph.</li> <li>Solve problems using data for at most two variables in a tabular form, or in a single line graph.</li> </ol>				
D.	Content	Collecting, Presenting and Interpreting Data				
E.	Integration	Entrepreneurship				

## **II. LEARNING RESOURCES**

816 Math Blog. (2011). Sarah's graphing Post. *Blogger*. <u>https://spmath81611.blogspot.com/2011/11/sarahs-graphing-post.html</u> MATH Worksheets 4 Kids. (2024). Line Graph worksheets. <u>https://www.mathworksheets4kids.com/line-graph.php</u> Pierce, R. (2022). Line graphs. *Math is Fun*. <u>https://www.mathsisfun.com/data/line-graphs.html</u>

III. TEACHING AND LEA	NOTES TO TEACHERS	
A. Activating Prior Knowledge	<ul> <li>DAY 1</li> <li>1. Short Review <ul> <li>Activity 1: Name It!</li> <li>Instruction: Show the following pictures of graphs to the class. Let them identify what type of graph is it.</li> </ul> </li> </ul>	The activity is intended to recall the different types of graphs that can be use in presenting data. You may also ask the learners what they remember about each type of graph.

	<ul> <li>Healthy Food Choices September October Oc</li></ul>	All pictures are sourced from https://spmath81611.blogspot. com/2011/11/sarahs- graphing-post.html Answer Key: 1. pictograph 2. bar graph 3. line graph 4. circle graph or pie chart
B. Establishing Lesson Purpose	<ul> <li>1. Lesson Purpose Activity 2: Analyze It! Instruction: Let the learners analyze the situation below. After that, let them answer the question that follows. Joana owns a grocery store. One of the products she sells in her store is ice cream. During the first week of May, her weekly ice cream sales are as follows:</li> <li>Ice Cream Sales for the Week</li> <li>Day</li> <li>Sales</li> <li>Monday</li> <li>₱310</li> <li>Tuesday</li> <li>₱440</li> <li>Wednesday</li> <li>₱550</li> <li>Thursday</li> <li>₱420</li> <li>Friday</li> <li>₱510</li> <li>Saturday</li> <li>₱790</li> <li>Sunday</li> <li>₱820</li> </ul>	<ul> <li>Activity 2 is intended to show data presented in tabular form. Give the learners a few minutes to analyze the table before asking them the guide questions. You may also add other questions if necessary.</li> <li>Answer Key: <ul> <li>a. Monday</li> <li>b. Sunday</li> <li>c. ₱3,840</li> <li>d. The ice cream sales are high during weekends.</li> <li>e. Yes</li> </ul> </li> </ul>

	<ul> <li>Guide Questions: <ol> <li>In what day is the ice cream sales lowest?</li> <li>In what day is the ice cream sales highest?</li> <li>What is the total weekly ice cream sales?</li> <li>Base on the table, what can you infer about the ice cream sales?</li> <li>Do you think there is another way of presenting the data in the table?</li> </ol> </li> <li>Unlocking Content Vocabulary After accomplishing Activity 2, introduce the following mathematical concepts: <ol> <li>Data is a collection of facts and figures that can be in numerical or non-numerical form.</li> <li>Data collection refers to the systematic process of gathering, measuring, and recording data. This may be done through surveys, interviews, and observations.</li> <li>A table is an arrangement of data, typically in rows and columns, that summarizes it in easy-to-understand format.</li> <li>Line graph is used to display data that shows change over time as series of data points connected by a straight line segments. </li> </ol></li></ul>	
C. Developing and Deepening Understanding	<ul> <li>DAY 2</li> <li>1. Explicitation Introduce the steps in presenting data in tabular form. In presenting data in tabular form: <ol> <li>Determine the needed number of columns and rows.</li> <li>Label properly the first row of the table depending on the data collected (You may also use the first column for this).</li> <li>Include a title that briefly describes that data presented.</li> </ol> </li> <li>2. Worked Example Jaychelle, a resident of Liliw, interviewed the owner of Badong's Footwear to determine number of pairs of slippers they sold each month last 2022. According to the owner, they sold 125 pairs in January, 200 pairs in February, 175 pairs in March, 475 pairs in April, 50 pairs in May, 100 pairs in June, 300 pairs in July, 150 pairs in August, 150 pairs in September, 50 pairs in October, 350 pairs in November, and 400 pairs in December. Present the data collected using a table.</li></ul>	Ask the learners first the question, "How did Jaychelle collected the number of pairs of slippers sold each month of 2022?" This is to emphasize that one method of collecting

Solution: First, decide of 2 columns for the mon label and the remaining Then, you may use M learners to complete th	data is through interviews. Remind learners of the proper ways of interviewing and the value of respect while conducting the interview.			
-	Month	Pairs		
	January	125		Prepare beforehand a blank
	February	200		table where the learners can
	March	175		write down the labels and the
	April	475		data from the situation in
	May	50		example 1.
	June	100		
	July	300		
	August	150		
	September	150		
	October	50		
	November	350		
	December	400		
Lastly, include a title <b>Pairs</b>	that briefly desc	eribes the table. <b>Id per Month (2</b>	2022)	X7 1 /1 1 °C
	Month	Pairs	•	You may also use other brief
	January	125		titles for the table as long as it
	February	200		Get ideas from the learners
	March	175		det lucas from the learners.
	April	475		The teacher may also
	May	50		emphasize the value of
	June	100		entrepreneurial mindset among
	July	300		learners.
	August	150		
	September	150		Emphasize that based on the
	October	50		situation, the data was
	November	350		collected through observation.
	December	400		Remind the learners in proper

2. Worked Example         Your teacher in Home Economics wanted you to determine the number of sarisari stores in the six barangays of your municipality. The table below shows your observation:         No. of Sari-sari Stores per Barangay         Mailurang Bukal       10         Ilayang Palina       3         Maslun       5         Burgos       7         Oples       1         Masikap       4         Present the data using a single line graph.       Solution: First create a horizontal and vertical scale with tick marks. Label the tick marks and label the scale. (Note: Data presented as numbers should be in the horizontal scale)       Image: Paint of the paint of	DAY 3 1. Explicitation Introduce the step single line graph: 1. Draw a ver scale a lab 2. Draw a ho scale a lab 3. Plot a dot 4. Connect the	s in presenting data in s rtical scale with tick man bel. rizontal scale with tick r bel. in each data value. ne dots and give the grap	single line graph. In pr rks. Label the tick man marks. Label the tick r ph a title.	esenting data as a rks and give the narks and give the	ways of observation to ensure that accurate data will be collected.
	2. Worked Examp Your teacher in sari stores in the your observatio Present the data Solution: First of scale with tick in and label the so numbers should	ble         Home Economics wanted         te six barangays of your         n:         No. of Sari-sari Sto         Barangay         Kanlurang Bukal         Ilayang Palina         Maslun         Burgos         Oples         Masikap         a using a single line grap         create a horizontal and value         marks. Label the tick matched         be in the horizontal score	ed you to determine th municipality. The table ores per Barangay Sari-sari Stores 10 3 5 7 1 1 4 ph. vertical arks red as cale)	le number of sari- le below shows	You may prepare this beforehand by printing it or drawing it on a manila paper. Let the learners write down the labels one by one. Note: You may access the images use for the line graph thru the link below or by scanning the QR code: http://tinyurl.com/my-line- graph



		Day	Number of Visitors		Answer Key:
		1	200		
		2	600		900
		3	400		2 700
		4	350		
		5	800		ğ 400
		0	500		300
	Draw a line graph that	t represents	the record of the mini zo	00.	
		Z	OO VISITORS		
		I			2 2 3 4 5 6 DAY
		900			
		× 700			1. 400
		1011SI 600			2. 600
		500			3. 100
					4. 3 days
		200			5. ₱30 000
		100			
			1 2 3 4 5 6		
			ΠΔΥ		
	1. How many visitors were there on Day 3?				
	2. How many more visitors were there on Day 5 than on Day 1?				
	3. How many fewer visitors were there on Day 6 than on Day 2?				
	4. How many days of	did the zoo h	ave fewer than 500 visit	ors?	
	5. If the ticket per v	isitor cost ₱1	50, how much is the tic	eket sale on Day 1?	
				ince bale on Day 1:	
D. Making Generalizations	DAI 4 1 Learners' Takeawawe	and Reflect	ion on Learning		determine what the learners
Generalizations	Closing the Loop!				have learned as well as to give
	Instruction: Let the learners answer the following questions.				feedback to their experiences
	1. What are the key concepts of our lesson?				during the lesson. Allot enough
	2. Which part of the lesson is the easiest for you? Why?				time to listen and process the
	3. Which part of the lesson is the hardest for you? Why?				responses of your learners. You
	4. How are we as a	class today?	5 5		may also add questions if
		C C			needed.



B. Teacher's Remarks	Note observations on any of the following areas: strategies explored materials used learner engagement/ interaction	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	
	others			ways to improve the different activities explored/lesson exemplar.	
C. Teacher's Reflection	Reflection guide or prompt of principles behind the What principles and Why did I teach the Why did I teach the What roles did my studen         • students         • What roles did my studen         • ways forward	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.			
	What could I have do What can I explore in				