## **EaD Comprehensive Lesson Plans**

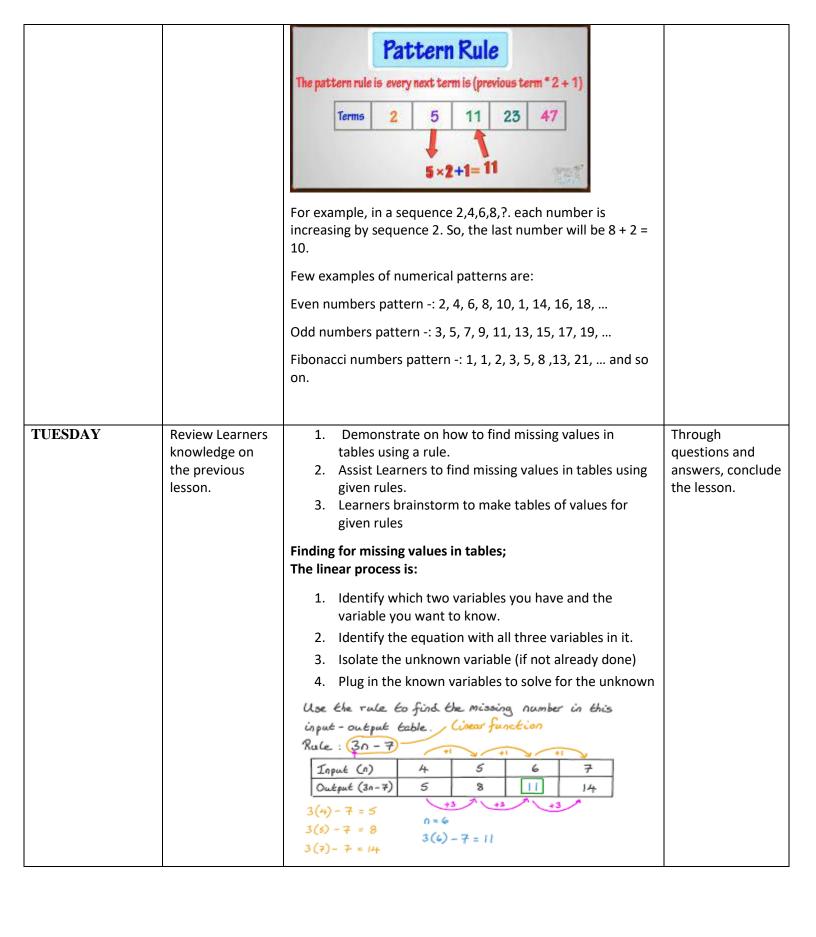


or 0248043888

https://www.TeachersAvenue.net https://TrendingGhana.net https://www.mcgregorinriis.com

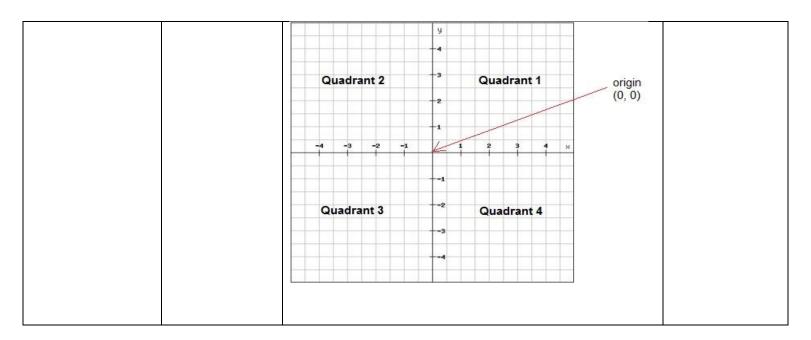
## **BASIC 7 WEEKLY LESSON PLAN – WEEK 3**

Strand:	Algebra		Sub-Strand:		Patterns and Relations					
Content Standard:	B7.2.1.1 Derive the rule for a set of points of a relation, draw a table of values to graph the relation in a number plane and make predictions about subsequent elements of the relation.									
Indicator (s)	B7.2.1.1.3 Identify the relation or rule in a pattern/mapping presented numerically or symbolically and predict subsequent elements  B7.2.1.1.4 Locate points on the number plane, draw table of values of a given relation, draw graphs for given relations and use it to solve problem  Performance Indicator: Learners can determine an element with a rule.							nine an		
Week Ending	26-01-2024									
Class	B.S.7	Class Size:			Dura	tion:				
Subject	Mathematics									
Reference	Mathematics Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.									
Teaching / Learning Resources	Charts, Poster, Pi	Core	Core Competencies:  • Analyz judgment about expressed in a			bout	•			
DAYS	PHASE 1 : STARTER	PHASE 2: M	AIN					PHASE 3: REFLEC		
MONDAY	Assist Learners to identify the rules for symbolic patterns.	<ol> <li>Learners brainstorm to differentiate between symbolic patterns and numeric patterns.</li> <li>Discuss with Learners on how to determine the rule for a given numeric patterns</li> <li>Learners in small groups to discuss and present to the class the rules for examples of symbolic and numeric patterns.</li> <li>Finding Missing Term: Consider a pattern 1, 4, 9, 16, 25, ?. In this pattern, it is clear that every number is the square of their position number. The missing term takes place at n = 6. So, if the missing is x<sub>n</sub>, then x<sub>n</sub> = n<sup>2</sup>. Here, n = 6, then x<sub>n</sub> = (6)<sup>2</sup> = 36.</li> <li>Difference Rule: Sometimes, it is easy to find the difference between two successive terms. For example, consider 1, 5, 9, 13, In this type of pattern, first, we have to find the difference between two pairs of the sequence. After that, find the remaining elements of the pattern. In the given problem, the difference between the terms is 4, i.e.if we add 4 and 1, we get 5, and if we add 4 and 5, we get 9 and so on.</li> </ol>				Ask Learners to find rules to patterns.  Exercise;  Find the missing numbers in the sequence;  i. 2, 4, 6, 8, 10, 10, 14, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10				



		a. According to the given condition, if the input is $x$ , then the output is $5x+2$ . This rule is fixed and therefore defines a function. Following is the table of values:	
THURSDAY	Discuss the meaning of "Mapping" with the Learners.	<ol> <li>Assist Learners to identify steps to follow to draw a table for the mapping defined by rules on a domain.</li> <li>Demonstrate on to how to locate points on a number plane.</li> <li>Individual Learners to practice locating points on a number plane.</li> <li>Assist Learners to draw graph for given relations.</li> </ol> Creating a Mapping Diagram;	Learners brainstorm to use knowledge of identifying and plotting points in a number plane to solve problems.
		<ul> <li>To create a mapping diagram</li> <li>draw two circles and label the first as the inputs and the second as the outputs (or whatever these are in the scenario).</li> <li>Then, draw an arrow from one input value to its matching output value</li> <li>continue until all input, output values are matched</li> </ul> Domain Range Input Output A B III IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIIII IIII IIIII IIIIII IIIIII IIIIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIIII IIIIII IIIIII IIIIIIII IIIIIIII IIIIIIIII IIIIIIIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1. Draw the following ordered pairs in the coordinat e plane  (0, 0); (0,4); (4, -2); (-2, -4); (1, 3)
		Locating Points on a coordinate plane;  To identify the x-coordinate of a point on a graph, read the number on the x-axis directly above or below the point.  To identify the y-coordinate of a point, read the number on the y-axis directly to the left or right of the point.  Remember, to write the ordered pair using the	

correct order (x,y).



Name of Teacher: School: District: