EaD Comprehensive Lesson Flans



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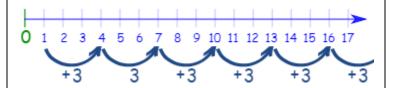
BASIC 7

WEEKLY LESSON PLAN – WEEK 2

Strand:	Algebra	Sub	-Strand:	Patterns and Relat	ons				
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)	B7.2.1.1.1 Extend a given relation presented with and without symbolic materials and explain how each element differs from the preceding one. B7.2.1.1.2 Describe the rule for a given relation using mathematical language such as one more, one less, one more than twice, etc Performance Indicator: Learners can identify the rule of a given relation.								
Week Ending	14-04-2023								
Class	B.S.7	Class Size:		Duration:					
Subject	Mathematics								
Reference	Mathematics Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.								
Teaching / Learning Resources	Charts, Pictures	s, Posters	Core Cor	mpetencies:					
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MA	AIN	,	PHASE 3: REFLECTION				
MONDAY 10-04-2023	Explain the concept of relation in Mathematics.	a relation 2. Assist Le patterns 3. Learners domains 4. Learners	arners to compo of numbers. brainstorm to e	completing tables involving patterns of numbers. Exercise;					

This sequence has a difference of 3 between each number.

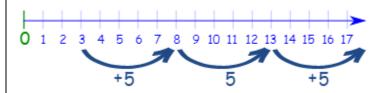
The pattern is continued by **adding 3** to the last number each time, like this:



Example:

This sequence has a difference of 5 between each number.

The pattern is continued by **adding 5** to the last number each time, like this:



The value added each time is called the "common difference"

What is the common difference in this example?

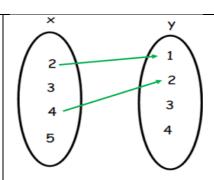
Answer: The common difference is 8

The common difference could also be negative:

Example:

This common difference is **-2**The pattern is continued by **subtracting 2** each time, like this:

		17 18 19 20 21 22 23 24 25 26 -2 -2 -2 -2						
TUESDAY	Review 1. Assist Learners to describe rules of given relations Learners using mathematical language such as one more, one knowledge less, one more than twice.			Through questions and answers, complete the lesson.				
11-04-2023	on the previous lesson.	 Learners brainstorm to find "square of numbers" and "double of numbers" in given relations. Learners in small groups to discuss and answer questions on a table of patterns. 		Exercise				
				1.				
				3	5	7	9	
		Double means that a number is multiplied by 2 . Squared means that a number is multiplied by itself.	у	9	15	21	27	
	as the given number or amount. So, if we multiply a number by 2 or if we add a number to itself, we say that the number is doubled. Squared =5^2 ==5 x 5 ==25 [multiply the number by itself] Doubled =2 x 5 ==10 [multiply the number by 2 The following Arrow Diagram shows a Relation from Set At Set B. Find the Domain and Range?				ne rela		nip of	
		Solution:						
		The domain is the first component of the ordered pairs in the Relation R whereas Range is the second component of the ordered pairs. Repetition is not allowed.						
		Domain = { -2, 2, 4, 5, 6}						
		Range = { 4, 16, 25, 36}						
		The below figure shows a relation between Set x and Set y. Write the same in Roster Form, Set Builder Form, and find the domain and Range?						



Solution:

In the Set Builder Form R = $\{(x, y): x \text{ is the square of } y, x \in X, y \in Y\}$

In Roster Form $R = \{(2, 1)(4, 2)\}$

Domain = $\{2, 4\}$

Range = $\{1, 2\}$

9. What can you say about the ordered pairs (x, y) and (y, x)?

Solution:

Ordered Pairs $(x, y) \neq (y, x)$.

In case of Ordered Pairs Order Matters.

10. If $A \times B = \{(a, 2); (a, 6); (a, 3); (b, 3); (b, 6); (b, 2)\}, find <math>B \times A$.

Solution:

Given $AxB = \{(a, 2); (a, 6); (a, 3); (b, 3); (b, 6); (b, 2)\}$

 $BxA = \{(2, a); (6, a); (3, a); (3, b); (6, b); (2, b)\}$

THURSDAY	Solve	Discuss with Learners on how to state the rules in	
13-04-2023	examples of writing relations in	words to represent a given relation. 2. Assist individual Learners to write rules of given relations in words.	
	words for Learners to observe.	A pattern rule is a mathematical relationship used to find the value of each term in a sequence. To describe certain sequences, a pattern rule can be established. This is an algebraic equation that enables you to quickly find the value of a term in a sequence using its rank.	REMARKS
		Che-to-One Correspondence Student I.D. No. Student Class Rank Nary 501 John 625 Km 154 One-to-Many Correspondence	
		Teacher Student Mars Mars Mors John	

Name of Teacher: School: District: