## SECOND TERM WEEKLY LESSON NOTES WEEK 2

Week Ending: 14-04-2023		DAY:		Subject: Mathematics			
Duration: 60MINS				Strand: Number			
Class: B8		Class Size:		Sub Strand: Powers Of Natur	al Numbers		
Content Standard: B8.1.2.3 Demonstrate understanding use of the laws of indices in solving involving powers of natural number		g and the problems s	Indicator: B8.1.2.3.4 S powers of r	olve real life problems involving natural numbers.	Lesson: I of 2		
Learners can solve natural numbers	ms involving powers of Communication and Collaborat Thinking and Problem solving (		on (CC) Critical CP)				
<b>References:</b> Math	ematics Curric	ulum Pg. 102	2				
Phase/Duration	Learners Act	ivities			Resources		
PHASE I:	Revise with le	earners on t	he previous le	esson.			
STARTER							
	Share performance indicators with learners and introduce the lesson.						
PHASE 2: NEW LEARNING	<ul> <li>lesson.</li> <li>Guide learners to solve exponential equations and Solve real life problems involving powers of natural numbers</li> <li>A person has a piece of land that is 50 meters long and 30 meters wide. How many square meters is the land?</li> <li>Solution: The area of the land is given by the product of its length and width, so we have: Area = 50 m x 30 m = 1500 m<sup>2</sup></li> <li>Therefore, the land has an area of 1500 square meters.</li> <li>A car travels at a speed of 60 km/h for 3 hours. How far does the car travel?</li> <li>Solution: The distance travelled by the car is given by the product of its speed and time, so we have: Distance = Speed x Time = 60 km/h x 3 h = 180 km</li> <li>Therefore, the car travels 180 kilometers.</li> <li>A building has 10 floors, each with a height of 3 meters. How high is the building?</li> <li>Solution: The total height of the building is given by the product of the height of each floor and the number of floors, so we have: Height = 10 x 3 m = 30 m</li> <li>Therefore, the building is 30 meters high.</li> <li>A recipe calls for 2 cups of flour, 1/2 cup of sugar, and 1/4 cup of butter. If you want to make twice the recipe, how much flour do you need?</li> <li>Solution: If we want to make twice the recipe, we need to double the amount of each ingredient. So we have: Flour = 2 cups x 2 = 4</li> </ul>						

	<ul> <li>5. A container of juice contains I liter of juice. If we pour 1/4 of the juice into a glass, how much juice is left in the container?</li> <li>Solution: If we pour 1/4 of the juice into a glass, we are left with 3/4 of the juice in the container. So we have: Juice left in container = 1 L x 3/4 = 0.75 L</li> <li>Therefore, there is 0.75 liters of juice left in the container</li> </ul>			
	Assessment Guide learners to solve real-life problems on populations.			
	While studying her family's history, Saratu discovers records of ancestors 12 generations back. She wonders how many ancestors she has had in the past 12 generations. She starts to make a diagram to help her figure this out. The diagram soon becomes very complex			
	Through illustrations, make a table and a graph showing the number of ancestors in each of the 12 generations. ii. Write an equation for the number of ancestors in a given generation n.			
PHASE 3:	Use peer discussion and effective questioning to find out from			
REFLECTION	learners what they have learnt during the lesson.			
	Take feedback from learners and summarize the lesson.			

Week Ending: 14-04-2023		DAY:		Subject: Mathematics			
Duration: 60MINS				Strand: Algebra			
Class: B8		Class Size:		Sub Strand: The Gradient Of A Line			
<b>Content Standard:</b> B8.2.1.1 Demonstrate the ability to draw table of values for a linear relation, graph the relation in a number plane, determine the gradient of the line and use it to write equation of a line of the form $y = mx + c$			Indi B8.2 line line	cator:Lesson:2.1.1.1 Calculate the gradient of a and use it to write equation of a of the form $y = mx + c$ .2 of 2			Lesson: 2 of 2
Performance Indicator: Core Competencies:							
Learners can calculate the gradient of a line and use it to write equation of a line of the form $y = mx + c$ Communication and Co Critical Thinking and Pro-				laborat blem s	ion (CC) olving (CP)		
References: Math	ematics Curric	ulum Pg. 112					
Phase/Duration	Learners Act	ivities	<u></u>			Resources	
STARTER	Revise with le	earners on the previ	ous ie	esson.			
	Share performance indicators with learners and introduce the lesson.						
PHASE 2: NEW	Explain the concept of gradient using real life examples and to Counters,					nters,	
LEARNING	discover the practical meaning of gradient. The gradient is the measure of how steep the hill the rider is climbing is. The gradient is the slope (or steepness) of the roofing of the building. Determine the formula for calculating the gradient of a line. The formula for calculating the gradient of a straight. $ \int_{1}^{y_1} \int_{1}^{y_2} \int_{1}^{y_2$					bundle and loose straws base ten cut square, Bundle of sticks	
	Determine th Find the grad i. A (1, 1) and 4) Determine th Find the grad 1. y = 5x +	ne gradient when give ient of a line which p I B (7, 2) ii. P (-2, 4) ne gradient of a straig ient from the equation 13	en tw basses and C ght lir on of	o coord s throug Q (3, 5) ne when the stra	dinates. h the point; iii. C (3, -2) and D (-3, its equation is given. aight line below.		



	Write the equation $5x + 4y - 3 = 0$ in the form $y = mx + c$ . Hence state the gradient and the intercept.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	