SECOND TERM WEEKLY LESSON NOTES WEEK 8

Week Ending: 26-05-2023		DAY:			Subject: Mathematics		
Duration: 60MINS		Strand: Geometry &		Measurement			
Class: B8		Class Size:			Sub Strand: Construct & Bisect Angles		
Content Standard: B8.3.1.2 Demonstrate the ability to perform geometric constructions of the angles (75°, 105°, 60°, 135° and 150°), and construct triangles and find locus of points under given conditions.			Indicator: B8.3.1.2.3: Construct loci			Lesson: I of 2	
Performance Ind Learners can cons		Core Competencies: Communication and Collab Critical Thinking and Proble			orat m s	ion (CC) olving (CP)	
References: Math	ematics Curric	ulum Pg. 133-141					
Phase/Duration	Learners Acti	vities				R	esources
PHASE I: STARTER	Revise with learners on the previous lesson.						
	Share performance indicators with learners and introduce the lesson						
PHASE 2: NEW LEARNING	Have learner points that s the path or the certain cons The concept collection of the locus of straight line locus of point Demonstrat 1. Identify the co points must sati 2. Analyze the co property. Break condition involves their relationship 3. Use geometri rulers, compasse determine and v	earners understand that a 'locus' refers to the set of all that satisfy a specific geometric condition. It represents th or trajectory followed by a point or object under a constraints or rules. Oncept of locus is often used in geometry to describe the tion of points that satisfy a given property. For example, cus of points equidistant from two fixed points is a t line called the perpendicular bisector. Similarly, the of points equidistant from a fixed point is a circle. Instrate how to construct a loci fy the condition: Determine the specific condition or property that the nust satisfy. ze the condition: Understand the requirements of the condition or . Break it down into simpler components if needed. For example, if the nivolves the distance between points, consider the distances involved and ationships.					ounters, undle and ose straws ase ten cut juare, Bundle f sticks

	4. Consider different scenarios: Explore different cases or variations of the			
	condition to gain a better understanding of the locus. This might involve changing			
	parameters or considering different possibilities within the condition.			
	5. Record the locus: Once you have determined the set of points that satisfy the			
	condition, record or represent the locus appropriately. This could be by drawing			
	the locus on a coordinate plane, labeling it with relevant equations or descriptions,			
	or using mathematical notation to express the locus.			
	6 Verify and refine: After constructing the locus verify that the points on the locus			
	indeed satisfy the condition. If necessary refine the construction by checking			
	additional points or adjusting the construction based on any discrepancies found			
	Guide learners to construct loci under given conditions			
	including:			
	(i) the locus of sets of points from a fixed point;			
	(ii) the locus of points equidistant from two fixed points:			
	(ii) the locus of points equidistant from two interposting			
	(iii) the locus of points equidistant from two intersecting			
	straight lines, and			
	(iv) the locus of points equidistant from two parallel lines.			
	Describe the locus of a circle by tracing the path of a point P which			
	moves in such a way that its distance from a fixed point, say O, is			
	always the same to construct circles			
	Parform connection to locate the control of a single by			
	Perform geometric construction to locate the centre of a circle by			
	locating the intersection of the perpendicular disectors of any two			
	chords on the circle			
	Draw circles of given radii at the points as centre and chord			
	Draw circles of given radii at the points as centre and chord.			
	Construct a regular hexagon within a circle given the length of a side			
	Assessment			
	Use a pair of compasses and a ruler to construct a hexagon			
	ABCDEF such that $ AB = 6$ cm. Find the measure of the angles AOB			
	and compare to its value.			
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: 26-05-2023		DAY:		Subject: Mathematics		
Duration: 60MINS				Strand: Geometry & Measurement		
Class: B8	Class Size: Sub Strand: (Sub Strand: Construct	Construct Of Triangles		
Content Standar B8.3.1.2 Apply the the primary trigor the formulas for c a circle to solve re	d: Pythagoras th nometric ratios letermining the eal problems.	eorem, and area of	Indicator: B8.3.2.1.1 Use the rela diameter and circumfe deduce the formula for this to solve problems	tionship between the rence of a circle to r finding its area, and use	Lesson: 2 of 2	
Performance Ind Learners can use circumference of area, and use this	icator: the relationship a circle to ded to solve proble	b between the diameter and uce the formula for finding its ems		Core Competencies: Communication and Coll Critical Thinking and Pro	tencies: n and Collaboration (CC) 1g and Problem solving (CP)	
References: Math	ematics Curric	ulum Pg.	142			
Phase/Duration PHASE I: STARTER	Learners Act Revise with le Share perform	Resources				
PHASE 2: NEW LEARNING	Guide learner circumferen area. E.g. I: Divide sectors and a circle.	Counters, bundle and loose straws base ten cut square, Bundle of sticks				
	: A Alternatively; The relations is given by the $C = \pi d$ where C repu diameter of t formula for fi We know that its boundary, enclosed by t	πr $= \pi r \times r$ hip betwee e formula resents the circle. nding the at the circle while the	$= \pi r^{2}$ the circumference and difference and difference and difference and difference and difference of a circle is the normalized of a circle of a circle is the normalized of a circle of	represents the we can deduce the the distance around heasure of the region		

	make use of the fact that the circumference is directly related to the				
	We start with the equation for the circumference of a circle:				
	We can rewrite the diameter in terms of the radius (r), which is half of the diameter:				
	d = 2r				
	Substituting this expression for the diameter in the equation for the circumference, we get:				
	C = π(2r)				
	Simplifying further:				
	C = 2πr				
	Now, we can use the relationship between the circumference and the radius to find the formula for the radius:				
	$C = 2\pi r$				
	Dividing both sides of the equation by 2π :				
	C / (2π) = r				
	Now, let's focus on the formula for the area of a circle. The area (A) of a circle is given by the formula:				
	A = πr^2				
	Assessment				
	Let learners solve problems on area of a circle.				
	(i) Find the area of a circle whose radius is 14cm (Take π = 22/7).				
	(ii) Find the area of a semi-circle whose radius is 7cm (Take π = 22/7)				
	(iii) Two circles have a common center: the small circle has radius				
	7cm, the big circle has radius 14cm.Find the shaded area. (Take $\pi = 22/7$).				
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				