LESSON PLAN 9						
CLASS : 7 TEACHER'S NAME :						
NAME OF THE UNIT	SUB-TOPICS	NO OF PERIODS REQUIRED			Time line for teaching	
		Teaching	Teaching Practice TOTAL Fr	From	То	
PERIMETER AND AREA	9.1 AREA OF PARALLELOGRAM	2	3	5		
	9.2 AREA OF TRIANGLE	2	3	5		
	9.3 CIRCLES 9.3.1 CIRCUMFERENCE OF A CIRCLE 9.3.2 AREA OF CIRCLE	3	5	8		
	TOTAL	7	11	18		
	KEY CONEPTS	KEY VOCABULARY				
PRE-REQUISITES	Every Pupil is expected to have basic knowledge in # different geometrical shapes like triangle, rectangle, polygons and circle # finding difference between perimeter and area # Parts and properties of different polygons and circle # nomenclature like base, height, radius,sector,∏ etc., # fundamental operations like +, -, x, ÷ # finding areas of rectangle and square.	# perimeter# ci# Area# ci# Parallelogram# ci# square, rectangle# ra# length, breadth# ci# base, height# ci# triangle# si# congruent# si		# correspon # circle # radius, dia # circumfere # circular re # semicircle # sector	ding Imeter ence gion	

LEARNING OUTCOMES

After Completion of this lesson every student will be able to

discriminate between area and perimeter

arrive at the formulae for finding areas and perimeters of parallelogram, triangle and circle by various known or practical methods

calculate the perimeter and area of given parallelogram, triangle and circle

utilize the formulae for finding areas and perimeters of parallelogram, triangle and circle in real life sums.

recognize the significance and appreciate the importance of finding perimeter and areas of different geometrical shapes in real life situations.



Experience & Reflection

Pupils will recollect their knowledge on different geometrical shapes, their parts and properties and will utilize that knowledge in exploring further more in knowing about perimeters and areas of some more geometrical shapes like parallelogram, triangle and circle

Students will experience the applications of Perimeter and Areas in real life situations.

TEACHING PERIOD : 1,2	AREA OF A PARALLELOGRAM			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS & PRE REQUISITES	Brain storming session invoving children with pre-requisites vocabulary and concepts related to previous knowledge. Introduction of new vocabulary and key words associated with the concept # perimeter # Area # Parallelogram # square # rectangle # length # breadth # base # height	* Students read the pre- requisites and answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books	
MIND MAPPING	Teacher writes the key word "PERIMETER AND AREA" on the black board and will elict its other related words through questioning and will draw pupils' attention towards key concepts in the lesson	Hetrogeneous groups are created. One group will read the words and other will explain the meaning	Pupils individually read the keywords associated with the chapter	
CONCEPTUAL	Teacher recalls the knowledge of children on various geometric shapes like	Hetrogeneous groups are	Each student in the group	
UNDERSTANDING	rectangle, triangle , paralleogram and circle along with their parts and basic	formed to participate in the	participates in the activities and	
	was cut along its height so that the triangular piece formed out of the cut can	activities	numbers	
A Height D Base Area of Parallelog	after lodging the triangle with reverse erection on the other side of the parallelogram. Now as since pupils are already aware of finding the area of a rectangle they easily find that the area of a parallelogram = base x height (bh)		Consider a parallelogram with base 'b' and height h' Step 1: Cut the parallelogram into two pieces along the height Step 2: Then, rearrange the pieces to form a mectangle Area (A) = b = h	
SUMMARY	Teacher writes the summary of the concept in a step wise procedure and asks children to note and read	pupils will note down and read the summary in groups	every individual reads the summary and notes it down	
ASSESSMENT	Teacher asks children to solve the sums of try these section, Think Discuss & Write along with example sums and exercise sums of 9.1	every group will do the sums by discussion among each	every individual solves the sums on their own	

PRACTICE PERIOD: 1,2,3	AREA OF A PARALLELOGRAM			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS READING Herein to read and write them in note books Herein to read and write them in note books He		Whole class activity : one child comes to the board and reads the key words loudly and the remaining class follows.	Every child comes to the board and reads the key words and notes them down in their note books	
SIMILAR LINES READING	Teacher finds the area of some parallelograms using the formula found and will ask children to find the areas of some more parallelograms using similar lines	Is the area of some parallelograms using the formula found and dren to find the areas of some more parallelograms using similar some more by discussion		
Find the ^{10.3m} 8.6m A=bh A=8.6•10.3 A=88.58	Area: b=8.6m h=10.3m 10.3 $\frac{x \ 8.6}{88.58}$	36 mm	9 cm	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and summary of the concept and asks children to read, note down and practice.	pupils will note down and read the summary in groups	every individual spells and reads the summary and notes it down	
WRITING/ EDITING	Teacher guides children in doing sums of exercise 9.1 on their own and checks their writings	One group will check the writings of the other and vice versa	Slow learners are focused and teacher will ascertain that every individual learns the concept in the forth coming practice sessions	

TEACHING PERIOD : 3,4	AREA OF A TRIANGLE			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
	Brain storming session invoving children with key words Students read the keywords		Every Pupil will read and write the	
	# base, height # triangle # congruent answer the c		key words in their note books	
CONCEPTUAL	Teacher once again conducts an activity in finding the area of a triangle as it	pupils are divided into	Each student in the group	
UNDERSTANDING	was done in the case of finding the area of a parallelogram by cutting any	netrogeneous groups and	participates in the activity and	
	type of traingle into 4 pieces one cut along its neight and another cut passing	engaged in the activity	learns the concept	
	nieces we can form a rectangle and can find the area of triangle with the			
LEARNING ACTIVITY	help of rectangle formula.			
	FINDING AREA OF A TRIANGLE FINDING AREA OF A TRIANGLE A Base = b Base = b Area of a triangle (fig 1) = Area of a rectangle (fig 2) = $\frac{1}{2}bh$			
SUMMARY	Teacher once again writes important key words and summary of the concept and asks children to note down and adopt.	Pupils will note down and read the summary in groups	dual reads the summary and notes it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from Try These sections as well as sums from exercise 9.1 and examples as well and asks children to do those sums	Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

PRACTICE PERIODS: 4 to 6	AREA OF A TRIANGLE			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU	
	Teacher writes the key words from proving class's teaching period and acks	Whole class activity Lang	DO)	
KEY WORDS READING	children to read and write them in note books	whole class activity . One	and reads the key words and	
	the base height the triangle the congruent	reads the key words loudly	notes them down in their note	
	Teacher solves some problems related to finding the area of a traingle using	Fach group will read the	Every individual will watch the	
1	the formule derived and will ask children to solve some more by watching	similar lines and will frame	similar lines and will frame some	
	similar lines		more	
		them	more	
	Find the area of each of the following triangles:	uncini		
	A Height = h = AB			
	= 2 cm			
	2 ci			
SIMILAR LINES READING	Base = b = BC	<u>></u>		
	= 3 cm	C		
	Area of $\triangle ABC = \frac{1}{2} \times b \times h$			
	$=\frac{1}{2}\times 3\times 2$			
	= 3 × 1			
	= 3 cm ²			
	rea of ΔABC is 3 cm²			
				
SUMMARY/	Teacher once again writes important key words and summary of the	Pupil groups will read and		
SYNOPSIS	concepts covered and asks children to note down and adopt.	adopt the procedure	Teacher focuses on every	
			individual so that each one learns	
	Teacher gives some questions from Try These sections and guides them in	One group will check the	the concept in successive	
WRITING/ EDITING	doing some sums of examples and exercise 9.1 and teacher checks the	writings of the other and vice	upcoming practice sessions	
	writings of children	versa		

TEACHING PERIOD : 5,6,7	CIRCLES, CIRCUMFERENCE OF A CIRCLE, AREA OF CIRCLE			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS	Brain storming session invoving children with key words # circle # radius, diameter # circumference # circular region # semicircle # sector	* Students read the key words and answer the questions to the teacher	Every Pupil will read and write the key words in their note books	
	Teacher conducts an activity involving hetrogeneous groups in finding the perimeter of circle. Teacher gives bangles of different sizes to each group and asks them to measure the length of each bangle using a ruler .For this they will be instructed to mark a point on the circumference of the bangle. Later they will be asked to roll the bangle along a scale by placing the marked perimeters.	Hetrogeneous groups are created and are engaged in activities The ratio of the droum	Every child participates in the activity and understands the concept	
CONCEPTUAL UNDERSTANDING	on the bangle at 0 on the scale. With the help of this teacher makes children understand that the ratio of the cirumferance of a circle to the diameter is a constant and is equal to \prod		1 2 1 4 5 6 7 8 9 10 11 12 13 14 6 17 1 Radius3 Diameter: 6 PQ is circumference	
Area of a Circle	Later teacher conducts an another activity by using a circular foam sheet which was cut into sectors and places those sectors in opposite directions to make the arrangement resemble a rectangle.Here as since the circumference of the circle is cut into 2 equal parts, the length of the	RESTAT	Diameters 2r Circumferences 2nr Ratio=C/d	
circumference A = $\pi \Gamma^2$	rectangle formed will be ' Π r ' and breadth will be 'r' which makes the area of the rectangle as Π r x r = Π r ² nothing but the area of the circle.			
LEARNING ACTIVITY				
SUMMARY	Teacher writes the summary of the concept discussed and asks children to read, note down and adopt	pupils will note down and read the summary in groups	every individual reads the summary and notes it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from Try These section and exercise sums of 9.2 and asks children to solve those sums	every group will do the sums by discussion among each	every individual solves the sums on their own	

PRACTICE PERIODS: 7 to 11	CIRCLES, CIRCUMFERENCE OF A CIRCLE, AREA OF CIRCLE			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS READING	Teacher writes the key words from previous class's teaching period and asks children to read and write them in note books # circle # radius, diameter # circumference # circular region # semicircle # sector	Whole class activity : one child comes to the board and reads the key words loudly and the remaining class	Every child comes to the board and reads the key words and notes them down in their note books	
SIMILAR LINES READING	Teacher will solve some exemplary sums involving areas and perimeters of a circle and will ask children to do some more worksheets by watching similar lines	Each group will read the similar lines and will solve some more by discussion	Every Individual prepares their own similar lines using the lines prepared by the teacher	
CIRCUMPEZNCE OF A CIRCLE 3A That is the according the density of each measurement that is the according to the according t	The area of a circle is 200 cm ² , find its circumference $\Rightarrow +9.6 \text{ cm}$ C = 2 π tR C = 2 π tR C = 2 x 3.14 x 7.9 C = 49.6 Write Hore	Area of a Circle Grade 5 Geometry Worksheet Calculate the area of each circle. 1. 2. 8 yd 2. 4. 5. 6 in 5. 7. 8.	18 in 3. 18 in 6. 10 yd 9. 2 yd	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and summary and asks children to read ,note down and adopt.	Pupil groups will read the summary and utilize	Teacher focuses on every individual so that each one knows	
WRITING/ EDITING	Teacher asks children to solve the sums of exercise 9.2 on their own and teacher checks the writings of children	One group will check the writings of the other and vice versa	and adopts the concept learnt in successive upcoming practice sessions	