LESSON PLAN 10

TEACHER'S NAME:

SUBJECT: MATHEMATICS

CLASS: 6

UNIT : MENSURATION

No.of Periods: 9+11=20

PERIOD ALLOTMENT						
NAME OF THE UNIT	SUB-TOPICS	NO OF PERIODS REQUIRED			Time line for teaching	
		Teaching	Practice	TOTAL	From	То
MENSURATI ON	10.1 PRE-REQUISITES & INTRODUCTION	1	1	2		
	10.2 PERIMETER10.2.1 PERIMETER OF A RECTANGLE10.2.2 PERIMETER OF REGULAR SHAPES	4	5	9		
	10.3AREA10.3.1AREA OF A RECTANGLE10.3.2AREA OF A SQUARE	4	5	9		
	TOTAL	9	11	20		
PRE-REQUISITES OF THE LESSION LEARNING OUTCOME		MES				
		After Comple	etion of this l	esson eve	ry studer	nt will be

Every Pupil is expected to have basic knowledge in

- # different plane figures like simple curve, complex curve, open curve & Closed curve
- # identidying polygons as simple closed figures formed by line segments # discriminating polygons by their number of sides triangle,
- quadrilateral,etc.,
- # finding the variations in quadrilaterals like rectangle and square
- # visualizing rectangle and square in real life exemplary objects.
- # four basic operations +,-,x,÷

able to

- # apprehend and discriminate between the basic terms Perimeter & Area
- # calculate the perimeter of any rectangular & square shaped figure using given measures and other non polygons using thread method
- # calculate the area of Rectangle and Square shaped figures using given measures
- # Utilize the concept of graph paper to measure the areas of other polygons and non polygons to a level of maximum accuracy.
- # appreciate the utility of "Mensuration" in real life sums

TEACHING PERIOD : 1 (PRE - REQUISITES & INTRODUCTION)				
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
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 through questioning # Mensuration # Simple curve # closed curve # Line segments # Polygons # Rectangle # Square # Length # Breadth	* 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 " MENSURATION " on the black board and will elict its other related words through questioning """""""""""""""""""""""""""""""""""	Hetrogeneous groups are created. One group will read the words and other will explain the meaning	Pupils individually read the keywords associated with the lesson	
RELEVANCE OF THE LESSON	Teacher conducts a discussion on the importance of the lesson through questioning 1.Give some examples of simple curves? 2. What type of curves are polygons? 3. A polygon of 4 sides is named as? 4. If a quadrileteral has all angles as right angles then what type of quadrilateral is that?	Students participate in the discussion and ask questions	Pupils individually write their responses to the questions asked	
CONCEPT MAP	Teacher displays the concept map depicting various concepts that pupil are going to learn in this lesson			
ASSESSMENT	Teacher asks children to guess what has to be found in some real life situations where it is needed to fence a field or paint a black board or wall.	every group will do the task by discussion among each other	every individual solves the task on their own	

PRACTICE PERIOD: 1				
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 # Mensuration # Simple curve # closed curve # Line segments # Polygons # Rectangle # Square # Length # Breadth	Students read these key words in groups and will try to give examples to each key word	Every child comes to the board and reads the key words and notes them down in their note books	
SIMILAR LINES READING	Teacher quotes some real life examples where it is needed to find perimeter and area of some rectangular and square shaped objects of real life and asks children to quote some more by watching similar lines.	Each group will observe the similar lines and will frame some more by discussion	Every Individual will frame some more using similar lines	
 To fence a field we need to find the perimeter of the field. To stick a glitter tape border to a drawing board we need to find the perimeter of the 				
board. 3. To colour a wall of my room I need to find its area.				
SUMMARY/ SYNOPSIS	Teacher writes synopsis on the board and asks children to read, write 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 condcuts a dictation on key words ,pre-requisites and similar lines and asks children to exchange books for editing after writing is finished.	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	

TEACHING PERIODS : 2 to 5	PERIMETER PERIMETER OF A RECTANGLE PERIMETER OF REGULAR SHAPES			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS CONCEPTUAL UNDERSTANDING	Brain storming session invoving children with key words # Perimeter # Regular shapes # Rectangle # Square # Uneven shapes # boundary # closed figure # length # breadth Teacher conducts an activity involving heterogeneous groups where each group will	ain storming session invoving children with y words* Students read the keywords answer the questions to the teacher (whole class activity)Perimeter # Regular shapes # Rectangle Square # Uneven shapes # boundary closed figure # length # breadth eacher conducts an activity involving* Students read the keywords answer the questions to the teacher (whole class activity)Perimeter # Regular shapes # Rectangle Square # Uneven shapes # boundary closed figure # length # breadth eacher conducts an activity involvingEach group will understand the		
Formula	be asked to find the length of each edge of	concepts by	learning acitivity and	
Perimeter of a Rectangle.	their class room and find the total length of	participation in the	observation of TLM	
Perimeter = 2(/+w) LEARNING ACTIVITY What is Perimeter The perimeter is the distance all the way around the outside of a 2D shape, space or area.	supplied with a number of regular and polygons and irregular polygons along with some rectangles and squares and are asked to measure the perimeter of those all polygons by finding the sum of the lengths of each side. Here teacher demonstrates the procedure of finding perimeter of different types of polygons.	Perimeter of Polyg	ons s Formulas Perimeter (P) = $a + b + c$ here, $a = AB$, $b = BC$ c = CA Perimeter (P) = $2 (w + 1)$ here, $w = width$, $1 = length$ Perimeter (P) = $4a$ here, $a = side$ Perimeter (P) = $4a$ here, $a = a = aB = CD$ b = BC = DA Perimeter (P) = $4s$ here, $a = AB = CD$ b = BC = DA Perimeter (P) = $4s$ here, $a = BC$, $b = AD$ c = AB, $d = CDPerimeter (P) = 2(a + b)here, a = BC, b = ADc = AB$, $d = CDPerimeter (P) = 2(a + b)here, a = BC, b = ADc = AB$, $d = CDPerimeter (P) = 5shere, s = sidePerimeter (P) = 6ahere, a = side$	
SUMMARY	Teacher once again writes important key	Pupils will note down	Every individual reads the summary and notes	
	note down and adopt.	in groups	it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from Try These sections as well as some examples and asks children to solve those sums	Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

PRACTICE PERIODS : 2 to 6	PERIMETER PERIMETER OF A RECTANGLE PERIMETER OF REGULAR SHAPES				
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)		GROUP ACTIVITY (WF DO)	INDIVIDUAL ACTIVITY	
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 # Perimeter # Regular shapes # Rectangle # Square # Uneven shapes # boundary # closed figure # length # breadth Whole class activit one child comes to board and reads th key words loudly a 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	Teacher finds out the perimeter of some		Each group will read	Every Individual will do	
READING	figures and asks children to solve the sums	in	the similar lines and	a few more by watcing	
	similar lines	ıg	by discussion	similar lines	
Provide the second seco	20 cm.	Fi 13	by discussion ind the perimeter of each shape. $ \begin{array}{c} 14 \text{ in} \\ 52 \\ 2 \text{ yd} \\ 2 \text$	$\frac{2^{2}}{9}$ $\frac{3 \text{ ft}}{9}$ $\frac{1}{9}$ 1	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and definitions and asks children to note down and adopt.		Pupil groups will read and adopt the procedure	Teacher focuses on every individual so that every child is able to	
WRITING/ EDITING	Teacher gives some questions from Exercis 10.1 and asks children to solve those sums and teacher checks the writings of children	9	One group will check the writings of the other and vice versa	learn the concept in successive upcoming practice sessions	

	AREA			
TEACHING	AREA OF A RECTANGLE			
PERIODS : 6 to 9	AREA OF A SQUARE			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS	Brain storming session invoving children with key words # Area # Closed figure # Graph sheet # Fully filled squares # Half filled squares # Less than half filled squares # More than half filled squares	* Students read the keywords answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books	
CONCEPTUAL	Teacher conducts an activity involving	Each group will	every child learns the	
UNDERSTANDING	heterogeneous groups where each group will	understand the	concept through the	
	be provided a graph paper along with some	concepts by	learning acitivity and	
	on one graph and draw the border of the leaf	activity	Observation of Telvi	
	and count the number of "full squares" enclosed inside the shape, no of "half			
	squares", no of "more than half squares" no of "less than half squares" covered inside the shape. Now teacher will guide children to find the area enclosed by the figure by counting			
	the no.of full squares, every two half squares as one full square, considering more than a half square as a full square and ignoring less than a half square. In the same fashion teacher guides children to find out the area of a rectangle and a			
	square and deduct their formulae	F	ormula	
LEARNING ACTIVITY	Area of a rectangle	Area of a square.		
	Area = L ength × Width	Ar	s $ea = s^{2}$	
	Teacher once again writes important key	Pupils will note down	Every individual reads	
JUIVIIVIANT	note down and adopt.	in groups	it down and adopts the	
ASSESSMENT	Teacher gives some questions from Try These sections as well as some examples and asks children to solve those sums	Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

