	LESSON PLAN 5					
CLASS: 6 TEACHER	'S NAME :					
NAME OF THE UNIT	SUB-TOPICS	NO OF PERIODS REQUIRED		Time line for teaching		
		Teaching	Practice	TOTAL	From	То
UNDERSTANDING ELEMENTARY SHAPES	5.1 INTRODUCTION 5.2 MEASURING LINE SEGMENTS	1	1	2		
	5.3 ANGLES - RIGHT & STRAIGHT 5.4 ANGLES - ACUTE, OBTUSE AND REFLEX	2	2	4		
	5.5 MEASURING ANGLES 5.6 PERPENDICULAR LINES	2	3	5		
	<ul><li>5.7 CLASSIFICATION OF TRIANGLES</li><li>5.8 QUADRILATERALS</li><li>5.9 POLYGONS</li></ul>	3	4	7		
	TOTAL	8	10	18		
	KEY CONEPTS	KEY VOCABULARY				
PRE-REQUISITES	Every Pupil is expected to have basic knowledge in # different geometrical terms like Point,Line,Line segment,Ray,Angle,Curve, Parallel lines, Perpendicualr lines,Polygon,Vertices, Adjacent, Opposite etc., # usage of different Mathematical instruments with finger dextirity # nomenclature of different objects of mathematical instrument box	<ul> <li>Tracing,Length,Comparision,Measure</li> <li># Right Angle, Straight Angle, Complete</li> <li>Angle,Revolution,Clock&amp;anticlock wise</li> <li># Acute,Obtuse,Reflex angles</li> <li># Perpendicular</li> <li># Classification</li> <li># Triangles</li> </ul>		# Equilater # Isosceles # Scalen tr # Quadrila # Square # Rectangl # Parallelo # Trapeziu # Polygon	iangles teral e gram	

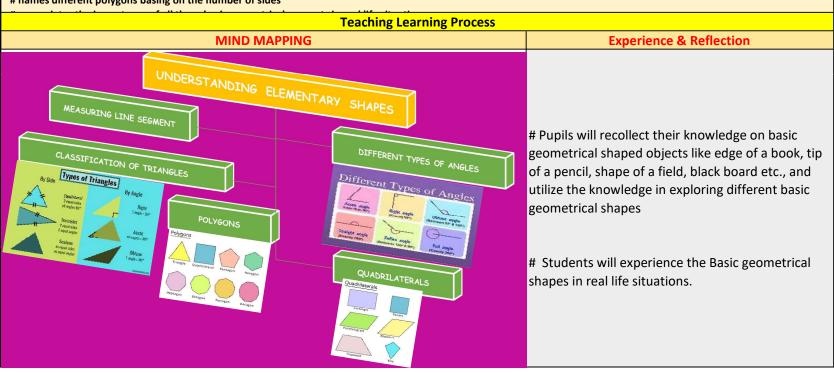
## Learning Outcomes

After Completion of this lesson every student will be able to

# identify the basic geometrical figures and shapes like line, line segment, point,ray,Angle, Curve, Polygon in real life objects

# draw line segment of any given measure and can compare lengths of two or more line segments

- # recognize Perpendicular lines, Parallel lines, Triangles, quadrilaterals and all polygons in real life sums.
- # descriminate different angles like acute, obtuse and right, straigt, complete etc., and can draw them using protractor.
- # classify different types of triangles based on their angles and sides like acute angled triangle, obtuse angled , right angled triangle, equilateral, Isosceles, and Scalen triangle
- # names different polygons basing on the number of sides



TEACHING PERIOD : 1	INTRODUCTION, MEASURING LINE SEGMENTS			
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 # Line Segment # Line # Point # Tip # Positioning # Tracing # Length # Comparision # Measurement	* 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 "UNDERSTANDING ELEMENTARY SHAPES" 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 knowing our numbers	
CONCEPTUAL UNDERSTANDING	Teacher once recalls the various geometrical shapes that they have learnt in previous chapter and now will introduce the process of measuring a line segment through different ways and comparing two line segments through an activity involving pupils. Teacher divides children into hetrogeneous groups and asks them to draw different line segments as per their wish in their note books. Later teacher engages the groups in measuring the length of the line segment in different ways using Ruler and by using a divider from mathematical instrument box. Teacher also demonstrates the procedure of measuring a line segment in	the activity and ascertains learning of the concept	every child learns the concept through the learning acitivity.	
LEARNING ACTIVITY	different ways, as well as drawing a line segment of given length using Black Board Geometry Instrument Box and ascertains that every child in all groups learns the process. During the process of demonstration teacher explains how to utilize the Mathematical Instruments with out any parallax error		A 5.3 cm B	
SUMMARY	Techer writes the summary of the concept and procedure of measuring the length of a line segment and asks children to read write and note	pupils will note down and read in groups	every individual reads the summary and notes it down	
ASSESSMENT	Teacher gives some questions under Try these section and exercise 5.1 and asks children to solve	every group will do the sums by discussion among each other	every individual solves the sums on their own	

PRACTICE PERIOD: 1	INTRODUCTION, MEASURING LINE SEGMENTS			
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 # Line Segment # Line # Point # Tip # Positioning # Tracing # Length # Comparision # Measurement	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 measures the lengths of some line segments using ruler and divider and compares their lengths using divider and asks children to measure the lengths of some more by watching similar lines P Q 0 1 2 3 4 5 6 7 8 9 10 inches	Each group will observe the similar lines and will measure some more by discussion	Every Individual measures some more using similar lines	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and procedures and asks children to spell, 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 gives some sums related to try these section and asks children to write them and checks the writings of children	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	

TEACHING PERIOD : 2,3	ANGLES - RIGHT & STRAIGHT, ANGLES - ACUTE, OBTUSE AND REFLEX		
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY ( YOU DO )
KEY WORDS	Brain storming session invoving children with key words # Right Angle # Straight Angle # Reflex angle # Acute Angle # Obtuse Angle # Complete Angle # Revolution # Clock & Anti Clock Wise direction	* 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 illustrates the concept of different angles like acute angle, obtuse angle, Right Angle, Straight Angle, Complete Angle, Revolution, Clock & Anti Clock wise direction etc by displaying different models as well as using a clock	Each group will understand the concept of different types of angles by discussion among themselves	
UNDERSTANDING	ACUTE ANGLE Less than 72 Degree RIGHT ANGLE Exect 50 egree BTUSE ANGLE Greater than 95 Degree Constraining fees than	Clockwise and Rotation	
LEARNING ACTIVITY	STRAIGHT ANGLE Exact 180 Degree Breact 180 Degree FULL ROTATION Degree Breact 180 Degree Breact 180 De		ckwise Anti clockwise
SUMMARY	Teacher once again writes important key words and definitions and asks children to 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 sections as well as sums of exercise 5.2 and 5.3 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: 2.3	ANGLES - RIGHT & STRAIGHT, ANGLES - ACUTE, OBTUSE AND REFLEX			
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 # Right Angle # Straight Angle # Reflex angle # Acute Angle # Obtuse Angle # Complete Angle # Revolution # Clock & Anti Clock Wise direction	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 arranges a clock with different times and writes the angles at those timings and asks children to write for some more by observing similar lines $\left( \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Each group will read the similar lines and will frame some more by discussion	Every Individual will do a few more by watcing similar lines	
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	
WRITING/ EDITING	Teacher gives some questions from Exercise 5.2 & 5.3 and asks children to solve those sums and teacher checks the writings of children	One group will check the writings of the other and vice versa	able to understand different types of angles in successive upcoming practice sessions	

TEACHING PERIOD : 4,5	MEASURING ANGLES, PERPENDICULAR LINES			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY ( YOU DO )	
KEY WORDS	Brain storming session invoving children with key words # Measure # Protractor # Perpendicular # Degree # Revolution # Precise # Bisector # Perpendicular bisector	* 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 UNDERSTANDING	Teacher demonstrates the concept of measuring an angle using a protractor from Mathematical instrument box and conducts an activity involving individuals to measure different angles drawn on the black board one by one. Here pupils will be asked to find out those angles which make 90 <sup>0</sup> . Then teacher provokes children to recognize and recall different objects which are in the shape of 90 <sup>0</sup> angle and now teacher makes children know the name of those lines making 90 <sup>0</sup> as Perpendicular lines	Each group will learn about the process of measuring angles through discussion	every child learns the concept through the learning acitivity.	
LEARNING ACTIVITY	Image: The angle that you are measuring.         Image: The angle that you are measure that you are mea	v To Line a Protentator the pare on your protections activity the outer scale or the generacity of the outer scale or the poor orgin is facing	SE A PROTRACTOR!	
SUMMARY	Teacher writes the key words and the procedure of measuring an angle using protractor and asks children to note down the summary 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	

ASSESSIVIEINI	Teacher gives some questions from exercise 5.4 & 5.5 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
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PRACTICE PERIODS: 4,5,6	MEASURING ANGLES, PERPENDICULAR LINES			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY( YOU DO)	
	Teacher writes the key words from previous class's teaching period and asks children to read and write them in note books # Measure # Protractor # Perpendicular # Degree # Revolution # Precise # Bisector # Perpendicular bisector	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 will measure some angles on the black board and will ask children to measure some more by observing similar lines	Each group will read the similar lines and will frame some more by discussion	Every Individual will do a few more by watching similar lines	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and important summary of the concept learnt and asks children to note down and adopt.	Pupil groups will read and adopt the procedure	Teacher focuses on every individual so that each one	
WRITING/ EDITING	Teacher gives some questions from Exercise 5.4 & 5.5 and asks children to solve those sums and teacher checks the writings of children	One group will check the writings of the other and vice versa	understands and utilizes the concepts in successive upcoming practice sessions	

<b>TEACHING PERIOD : 6,7,8</b>	CLASSIFICATION OF TRIANGLES, QUA	DRILATERALS, POLYGONS	
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (
KEY WORDS	Brain storming session invoving children with key words # Triangle # Equilateral Triangle # Isosceles # Scalen # Acute angled # Right Angled # Obtuse angled # Quadrilateral # Trapezium # Parallelogram # Rectangle # Kite # Rhombus # Square # Polygon # Pentagon # Hexagon # Septagon # Octogan	* 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 UNDERSTANDING	Teacher demonstrates the concept of different types of triangles, quadrilaterals, and polygons in subsequent teaching periods by showing different models of each and will ascertain pupils' apprehensions in each of those concepts.	Each group will learn about different types of curves, Polygons and Angles through discussion	every child learns the concept through the learning acitivity.
LEARNING ACTIVITY	TRIANGLES Classified by Sides EQUILATERAT TRIANGLE Sogregentetic digides have grund means Compresent sides digides have compresent sides digides have digides have compresent sides digides have digides have compresent sides digides have digides have di	Quadrilateral Family Trapezoid Parallelogram Rhombus Square	- Hug J Stele and - Hug J Stele and - Hug A steles and - Hug A steles - Steles and - Hug A steles - Steles and - Hug A steles - Steles and - Hug A steles - Hug A steles - Steles and - Hug A steles - Steles and - Hug A steles - Hug A steles - Hug A steles and - Hug A steles - Hug A steles
SUMMARY	Teacher writes the key words and classifications and asks children to note down the summary and adopt	Pupils will note down and read the summary in groups	summary and notes it down and adopts the procedure
ASSESSMENT	Teacher gives some questions from exercise 5.5 & 5.6 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

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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 # Triangle # Equilateral Triangle # Isosceles # Scalen # Acute angled # Right Angled # Obtuse angled # Quadrilateral # Trapezium # Parallelogram # Rectangle # Kite # Rhombus # Square # Polygon # Pentagon # Hexagon # Septagon # Octogan	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 will classify different triangles depending upon angles as well as sides and asks children to classify quadrilaterals depending upon their nature by watching the similar lines Classification By Sides Equilateral 3 congruent sides Classification By Angles Acute Equiangular Right Obtuse 3 acute angles 3 congruent 1 right angle 1 obtuse angle	Each group will read the similar lines and will classify in the case of quadrilaterals by discussion	Every Individual will participate in classifying quadrilaterals and polygons by watching similar lines
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and important summary of the concept learnt and asks children to note down and adopt.	Pupil groups will read and adopt the procedure	Teacher focuses on every individual so that each one
WRITING/ EDITING	Teacher gives some questions from Exercise 5.5 & 5.6 and asks children to solve those sums and teacher checks the writings of children	One group will check the writings of the other and vice versa	understands and utilizes the concepts in successive upcoming practice sessions