LESSON PLAN 5						
CLASS: 9 SUBJECT: MATHEMATICS TEACHER'S NAME:						
NAME OF THE UNIT	SUB-TOPICS	NO OF PERIODS REQUIRED			Time line for teaching	
		Teaching	Practice	TOTAL	From	То
INTRODUCTION TO	5.1 INTRODUCTION	2	2	4		
EUCLID'S	5.2 EUCLID'S DEFINITIONS, AXIOMS AND POSTULATES	3	3	6		
GEOMETRY	TOTAL	5	5	10		
PRE-REQUISITES & SKILLS	Every Pupil is expected to have basic knowledge and skills in # basic geometrical terms like point, line, linesegment, ray, distance,Parallel and Perpendicular lines etc., # four basic operations like +,-,x and ÷ # Usage of Mathematical instrument box # Visualization of different geometrical shpaes like polygons, cuboids, cubes, sphere, cylinder, pyramid, prism etc.,					

Learning Outcomes

After Completion of this lesson every student will be able to

recognize various geometry related sums in real life are inferences of Euclid's Geometry

identify the axioms and postulates which are made use of in geometrical sums.

utilize appropriately the axioms and postulates of Euclid in future endeavours of gemoetry.

appriciate Euclid and Other Mathematicians who strived through out their life in pursuit of everlasting geometry.

Teaching Learning Process INTRODUCTION /INDUCTION Experience & Reflection Teacher introduces the chapter of Introduction to Euclid's Geometry by drawing pupils's attention towards various real life objects which involve number of geometrical shapes and calculations. Teacher creates curiosity in children by questioning about geometry and the mathematicians who strived # Pupils will recollect their knowledge on various throughout their life in buliding the so called geometry which we have been geometrical terminology and shapes and utilize it here to using now with ease there by introduces the concept. know deep about how it came into existence and persons who worked on it to bring it into our daily life. Students will experience the usage of geometry in real ELEMENT e situations and appreciate the works of those who Geometry. ought it into our daily life. A Tradit REGULAR SOLIDA Fuelid's DATA:

EXPLICIT TEACHING/TEACHER MODELLING (I DO)	GROUP WORK (WE DO)	INDEPENDENT WORK (YOU DO)	NOTES
5.1. INTRODUCTION Teacher makes children know how geometry shaped as a disciplined science and the history behind it. Teacher also explains the history of various mathematicians and Philosophers from all over the world including India who worked in shaping this geometry as a systematic science. Teacher creates enthusiasm in children by telling them the history of geometry. Teacher also emphasizes especially the work of Euclid in his treatise " The Elements"	Pupils will work in groups and try to collect the data of the mathematicians who worked in developing geometry as a systematic science and discuss about the great work done by those great personlaities to the mankind.	Every individual knows about the history of geometry and the credits of various mathematicians in it.	vilisation

EXPLICIT TEACHING/TEACHER MODELLING (I DO)	GROUP WORK (WE DO)		INDEPENDENT WORK (YOU DO)	NOTES	
AXIOMS AND POSTULATES		l, were nematics Eu 1. A str any p 2. A fin conti 3. A cir cento 4. All n 5. If a t way t trans then	point. ite straight line can nuously in a straigh cle may be describ er and any distance ght angles are equa ransversal falls on t that the interior ang sversal are less than	(for geometry) rawn from any point to be produced at line. ed with any point as as radius. al to one another. two lines in such a les on one side of the n two right angles, hat side on which the	

CHECK FOR UNDERSTANDING QUESTIONS		
1. Factual	 Define an Axiom and a Postulate The Book prepared by Euclid is and consists of books. 	
	 Give a brief of Euclid's 5 Postulates If a point C lies between two points A and B such that AC = BC, then prove that 	
3.Student Practice questions & Activities	AC = 1/2 AB. Explain by drawing the figure 1. Consider two 'postulates' given below:	
	(i) Given any two distinct points A and B, there exists a third point C which is in between A and B.	
	(ii) There exist at least three points that are not on the same line. Do these postulates contain any undefined terms? Are these postulates consistent?	
	Do they follow from Euclid's postulates? Explain.	
4. Assessment	Exercise sums and worksheet on Introduction to Euclid's Geometry	