N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL SYLLABUS, 2024-2025							
Class-X	**Subject-Mathematics**	**Subject Teacher(Prepared by): RR**		**Designation: TGT**			
Preferred Text Book /Material	**Chapter's Name**	**Chapter Topic/Sub Topic**	**Term**	**StartDate**	**End Date**	**No of Pds.**	
Mathematics	*REAL NUMBER*	Fundamental Theorem of Arithmetic - statement	I	**01-04-2024**	**06-04-2024**	7	
Textbook for		after reviewing work done earlier and after					
Class X		illustrating and motivating through examples,					
NCERT Publication		Proofs of irrationality	I				
	POLYNOMIALS	Definition, Zeros of a polynomial.Relationship between		08-04-2024	19-04-2024	9	
		zeros and coefficients of quadratic polynomial.					
	QUADRATIC	Standard form of a quadratic equation Solutions of Q.E	I	22-04-2024	26-04-2024	6	
	EQUATIONS	by factorization, and by using quadratic formula.					
		Relationship between discriminant and nature of roots.					
		Situational problems based on quadratic equations		29-04-2024	03-05-2024	6	
Mathematics Lab							
Mannual Class IX&X							
Published by NCERT	PAIR OF LINEAR	Introduction to Pair of linear equations in two variables					
	EQUATIONS IN	graphical method of their solution, consistency/inconsistency.	I	**06-05-2024**	**10-05-2024**	7	
	TWO VARIABLES						
		Algebraic conditions for number of solutions.					
		Solution of a pair of linear equations in two variables					
		algebraically - by substitution, by elimination					
		Simple situational problems.		13-05-2024	17-05-2024	6	
	INTRODUCTION TO	T-ratios of an acute angle of a right-angled triangle.	I	**01-07-2024**	**06-07-2024**	7	
	TRIGONOMETRY	Proof of their existence (well defined);					
		motivate the ratios whichever are defined at 0 and 90					
		Values of the trigonometric ratios of 30, 45 and 60 .					
		Relationships between the ratios.	I	08-07-2024	12-07-2024	6	
		Proof and applications of the identity sin2A + cos2A = 1.					
		Only simple identities to be given.					
	COORDINATE	Review: Concepts of coordinate geometry,	I	15-07-2024	20-07-2024	6	
	GEOMETRY	graphs of linear equations.					
		Distance formula. Section formula (internal division).	I	22-07-2024	26-07-2024	6	
	TRIANGLES	Definitions, examples, counter examples of similar triangles.	I	**29-07-2024**	**03-08-2024**	*7*	

		Proof of Basic Proportionality theorem.Statement of					
		converse.Related questions					
		Criterion of simalarity and questions based on them.	I	05-08-2024	**09-08-2024**	6	
	STATISTICS	Introduction,Mean of grouped data	I	12-08-2024	17-08-2024	6	
		median and mode of grouped data	I	**20-08-2024**	**23-08-2024**	5	
		(bimodal situation to be avoided).					
	PROBABILITY	Classical definition of probability.	I	27-08-2024	30-08-2024	5	
		Simple problems on finding the probability of an event					
	Revision	Revision for Half yearly Examination	I	02-09-2024	11-09-2024	9	
	ARITHMETIC	Introduction,Basic Concepts,Derivation of the nth terms	II	13-09-2024	27-09-2024	13	
	PROGRESSIONS						
	ARITHMETIC	Sum of first n terms and their application in	II	30-09-2024	05-10-2024	6	
	PROGRESSIONS	solving daily life problems.					
	CIRCLES	Tangent to a circle at, point of contact	II	07-10-2024	19-10-2024	9	
		Theorems and questions based on them.					
	SOME APPLICATIONS	Simple problems on heights and distances.	II	21-10-2024	25-10-2024	6	
	OF TRIGONOMETRY	Angles of elevation / depression should be only 30°, 45°, and 60°.		**04-11-2024**	**08-11-2024**	5	
	AREAS RELATED	Area of sectors and segments of a circle. Problems based on	II				
	TO CIRCLES	areas and perimeter /circumference of the above e figures. For		11-11-2024	16-11-2024	6	
		area of segment of acircle, problems should be restricted					
		to central angle of 60°, 90° and 120° only. Revision					
		Pre Board-1		18-11-2024	02-12-2024		
	SURFACE AREAS	Surface areas and volumes of combinations of any two of	II	03-12-2024	07-12-2024	7	

	AND VOLUMES	the following: cubes, cuboids, spheres,					
		hemispheres and right circular cylinders/cones.					
	REVISION	Revision		09-12-2024	12-12-2024	5	
		Pre- Board 2 Examination		16-12-2024	30-12-2024		
	Prepared by: RR						
	Sub. Co-ordinator-KKJ						

S.NO	PT/HALF YEARLY/PRE	Chapter/Topic	Max. Marks
1	PT1	REAL NUMBERS	12
		POLYNOMIALS	8
		TOTAL	20
2	PT2	PAIR OF LINEAR EQUATION IN TWO VARIABLES	12
		TRIGONOMETRY	8
		TOTAL	20
3	PT3	QUADRATIC EQUATIONS	8
		TRIANGLES	10
		COORDINATE GEOMETRY	9
		STATISTICS	8
		PROBABILITY	5
		TOTAL	40
4	PREBOARD 1	NUMBER SYSTEM	6
		ALGEBRA	20
		COORDINATE GEOMETRY	6
		GEOMETRY	15
		TRIGONOMETRY	12
		MENSURATION(AREA RELATED TO CIRCLES)	10
		STATISTICS AND PROBABILITY	11
		TOTAL	80
5	PREBOARD 2	NUMBER SYSTEM	6
		ALGEBRA	20
		COORDINATE GEOMETRY	6
		GEOMETRY	15
		TRIGONOMETRY	12
		MENSURATION	10
		STATISTICS AND PROBABILITY	11
		TOTAL	80