

THE WISDOM GLOBAL SCHOOL**SYLLABUS BIFURCATION****GRADE - XI****SUBJECT- MATHEMATICS****NAME OF THE BOOK - MATHEMATICS(NCERT/R D SHARMA)****YEAR-2023-2024****NAME OF THE TEACHER- Mr. SUSHIL CHANDRA BHATT**

S. No	BOOK NAME	MONTH	CHAPT ER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIR ED	ACTIVITY/ PROPS
1	NCERT/R D SHARMA	APRIL	1	SETS	Introduction, Sets and their representation	2	NO
2		APRIL			Types of Sets - Empty set, finite and infinite sets, Equal sets	2	NO
3		APRIL			Subsets of a set of real numbers especially intervals (with notations), Universal set.	2	NO
4		APRIL			Operation on Sets - Union and intersection sets	2	YES
5		APRIL			Difference and complement of sets	2	NO

6		APRIL			Properties of complement of a Set	2	NO
7		APRIL			Practice - Extra problems	1	NO
8	NCERT/R D SHARMA	APRIL	2	RELATIONS AND FUNCTIONS	Introduction, Ordered pairs, Cartesian product of two sets	2	NO
9		APRIL			Definition of Relation, Domain and Range of a relation	2	NO
10		APRIL			Function, Pictorial representation of a function	2	YES
11	NCERT/R D SHARMA	MAY			Domain and range of a functions, Vertical line test	2	NO
12		MAY			Real valued functions- Constant, Identity, Polynomial, Modulus, Signum, Greatest integer function, Fractional part function with their graph	2	YES
13		MAY			Even or Odd functions, Algebra of functions	1	NO
14		MAY			Practice - Extra problems	2	NO

15		MAY			Situational problems based on Quadratic equations related to day to day activities	2	NO
16		MAY			Practice- Extra problems	1	NO
17	NCERT/R D SHARMA	MAY	3	TRIGONOMETRIC FUNCTIONS	Introduction, Angles, measuring angles in Degree and Radian measure	2	NO
18		MAY			Relation between radian and real numbers, Relation between degree and radian	2	NO
19		MAY			Trigonometric functions	2	NO
20		MAY			Signs of Trigonometric functions	2	NO
21		MAY			Domain and range of Trigonometric functions and their graphs	2	YES
22		MAY			Trigonometric functions of sum and difference of two angles	3	NO
23		MAY			Trigonometric Equations and their solutions	2	NO
24		MAY			Practice - Extra problems	2	NO

25	NCERT/ D SHARMA	JUNE	5	COMPLEX NUMBERS	Introduction, Imaginary numbers, Powers of Iota(i)	1	NO
26		JUNE			Complex numbers, Algebra of Complex numbers	2	NO
27		JUNE			Modulus and conjugate of a complex number	1	NO
28		JUNE			Argand plane and Polar representation	2	NO
SUMMER BREAK							
29		JULY			Quadratic Equations and their solutions (roots are imaginary)	2	NO
30		JULY			Practice - Extra problems	2	NO
31	NCERT/ D SHARMA	JULY	6	LINEAR INEQUALITIES	Introduction, Inequalities	1	NO
32		JULY			Algebraic solutions of Linear inequalities in one variable and their graphical representation	2	NO

33		JULY			Graphical solution of Linear inequalities in Two variables	2	YES
34		JULY			Solution of system of linear inequalities in two variables	3	NO
35		JULY			Practice- extra problems	2	NO
36	NCERT/R D SHARMA	JULY	7	PERMUTATIONS AND COMBINATIONS	Introduction, Fundamental principle of counting- Addition and Multiplication rule	2	NO
37		JULY			Arrangemant, Factorial notation	2	NO
38		JULY			Derivation of the formula for npr	3	NO
39		JULY			Combinations - 'selection'	3	NO
40		JULY			Practice- extra problems	3	NO
41	NCERT/R D SHARMA	AUGUST	8	BINOMIAL THEOREM	Introduction	1	NO

42		AUGUST			Binomial theorem for Positive integral indices	2	YES
43		AUGUST			Pascal's triangle	2	NO
44		AUGUST			General and Middle terms	3	NO
45		AUGUST			Practice- extra problems	2	NO
46	NCERT/R D SHARMA	AUGUST	9	SEQUENCE AND SERIES	Introduction, Sequence and Series	2	NO
47		AUGUST			Arithmetic Progression	3	YES
48		AUGUST			Geometric Progression, General term of a G.P.	2	NO
49		AUGUST			Geometric Mean, Relationship between A.M. and G.M.	4	YES
50	NCERT/R D SHARMA	AUGUST			Practice- extra problems	3	NO
51		AUGUST	10	STRAIGHT LINES	Introduction	1	NO

52		SEPTEMBER			Slope of a line	2	NO
53		SEPTEMBER			Conditions for parallelism and perpendicularity of lines	1	NO
54		SEPTEMBER			Angles between two lines	2	YES
MID TERM EXAMINATION							
55		SEPTEMBER			Various forms of the Equation of the line	2	NO
56		SEPTEMBER			General Equation of a line	2	NO
57		SEPTEMBER			Distance of a point from a line, Distance between two parallel lines	2	NO
58		SEPTEMBER			Practice- extra problems	2	NO
59	NCERT/R D SHARMA	SEPTEMBER	11	CONIC SECTIONS	Introduction, Sections of a Cone	2	NO
60		SEPTEMBER			Degenerated conic sections- Circles	2	YES
61		SEPTEMBER			Parabola	2	NO
62		SEPTEMBER			Ellipse	3	NO
63		SEPTEMBER			Hyperbola	3	NO
64		SEPTEMBER			Practice- extra problems	2	NO

65	NCERT/R D SHARMA	OCTOBER	12	INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	Introduction, Coordinate axes and Coordinate planes in three dimensional space	2	NO
66		OCTOBER			Distance between two points	2	YES
67		OCTOBER			Section formula	3	NO
68		OCTOBER			Practice- extra problems	3	NO
69		OCTOBER	13	LIMITS AND DERIVATIVES	Introduction, Intuitive idea of Derivatives	2	NO
70		NOVEMBER			Limits	2	YES
71		NOVEMBER			Algebra of limits	1	NO
72		NOVEMBER			Limits of polynomials and rational functions	2	NO
73		NOVEMBER			Limits of Trigonometric functions	1	NO
		NOVEMBER			Derivatives, First principle of derivative	3	YES
		NOVEMBER			Algebra of derivative of functions	2	NO
		NOVEMBER			Derivation of polynomials and trigonometric functions	2	NO
		NOVEMBER			Practice- extra problems	2	NO

	NCERT/R D SHARMA	DECEMBER	15	STATISTICS	Introduction	2	NO
		DECEMBER			Measure of dispersion	1	NO
		DECEMBER			Range, Mean deviation, Mean deviation about median	2	YES
		DECEMBER			Variance and Standard deviation	3	NO
		DECEMBER			Analysis of frequency distributions	2	NO
		DECEMBER			Practice- extra problems	2	NO
		DECEMBER	16	PROBABILITY	Introduction	2	NO
74		DECEMBER			Sample space	2	YES
75					Event, Types of events	2	NO
76					Algebra of events	2	NO
					Axiomatic approach to probability	2	NO

FINAL ASSESSMENT

SMART BOARD (PPT/VIDEO)	CHART
NO	NO
NO	YES
NO	NO
NO	NO
NO	NO

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