

THE WISDOM GLOBAL SCHOOL**SYLLABUS BIFURCATION****GRADE - XI****SUBJECT- MATHEMATICS****NAME OF THE BOOK - MATHEMATICS(NCERT/R D SHARMA)****YEAR-2024-2025****NAME OF THE TEACHER- Mr. SUSHIL CHANDRA BHATT**

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
1	NCERT/R D SHARMA	APRIL	1	SETS	Introduction, Sets and their representation	2	NO	https://video.wixstatic.com/video/f29914_5efc935b65ff47279b8f38039e83057f/720p/mp4/file.mp4	NO
2		APRIL			Types of Sets - Empty set, finite and infinite sets, Equal sets	2	NO	NO	YES
3		APRIL			Subsets of a set of real numbers especially intervals (with notations), Universal set.	2	To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n	https://video.wixstatic.com/video/f29914_5c23cce51f1f4950a2663021b5a37785/720p/mp4/file.mp4	NO
4		APRIL			Operation on Sets - Union and intersection sets	2	YES	https://video.wixstatic.com/video/f29914_ab7795fdea6e42baa4226a61fe2a2cd5/720p/mp4/file.mp4	NO
5		APRIL			Difference and complement of sets	2	NO	NO	NO
6		APRIL			Properties of complement of a Set	2	To represent set theoretic operations using Venn diagrams.	NO	NO
7		APRIL			Practice - Extra problems	1	NO	NO	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
8	NCERT/R D SHARMA	APRIL	2	RELATIONS AND FUNCTIONS	Introduction, Ordered pairs, Cartesian product of two sets	2	NO	https://video.wixstatic.com/video/f29914_51921feddd5c49219f14e2d3ebfcd2cb/720p/mp4/file.mp4	NO
9		APRIL			Definition of Relation, Domain and Range of a relation	2	To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is $2pq$, where $n(A) = p$ and $n(B) = q$	NO	NO
10		APRIL			Function, Pictorial representation of a function	2	To identify a relation and a function.	NO	YES
11	NCERT/R D SHARMA	MAY			Domain and range of a functions, Vertical line test	2	NO	NO	YES
12		MAY			Real valued functions- Constant, Identity, Polynomial, Modulus, Signum, Greatest integer function, Fractional part function with their graph	2	YES	NO	NO
13		MAY			Even or Odd functions, Algebra of functions	1	NO	NO	NO
14		MAY			Practice - Extra problems	2	NO	NO	NO
15		MAY			Situational problems based on Quadratic equations related to day to day activities	2	NO	NO	NO
16		MAY			Practice- Extra problems	1	NO	NO	NO
17	NCERT/R D SHARMA	MAY	3	TRIGONOMETRIC FUNCTIONS	Introduction, Angles, measuring angles in Degree and Radian measure	2	To verify the relation between the degree measure and the radian measure of an angle.	https://video.wixstatic.com/video/f29914_ec38e0b1497f462988db312bf5cf82fb/720p/mp4/file.mp4	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
18		MAY			Relation between radian and real numbers, Relation between degree and radian	2	NO	NO	NO
19		MAY			Trigonometric functions	2	NO	NO	no
20		MAY			Signs of Trigonometric functions	2	NO	NO	NO
21		MAY			Domain and range of Trigonometric functions and their graphs	2	To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant.	NO	YES
22		MAY			Trigonometric functions of sum and difference of two angles	3	To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of π and π	NO	NO
24		MAY			Practice - Extra problems	2	NO	NO	NO
25	NCERT/R D SHARMA	JUNE	5	COMPLEX NUMBERS	Introduction, Imaginary numbers, Powers of Iota(i)	1	To inerpret geometrically the meaning of $i = -1$ and its integral powers	https://video.wixstatic.com/video/f29914_b91e488c6cb34321993be8df3598bc4/720p/mp4/file.mp4	NO
26		JUNE			Complecs numbers, Algebra of Complex numbers	2	NO	NO	NO
27		JUNE			Modulus and conjugate of a complex number	1	NO	NO	NO
28		JUNE			Argand plane and Polar representation	2	NO	NO	NO
SUMMER BREAK									
29		JULY			Quadratic Equations and their solutions(roots are imaginary)	2	NO	https://video.wixstatic.com/video/f29914_a82c4ad9348b428a8309b8e00875d500/720p/mp4/file.mp4	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
30		JULY			Practice - Extra problems	2	NO	NO	NO
31	NCERT/R D SHARMA	JULY	6	LINEAR INEQUALITIES	Introduction, Inequalities	1	NO	https://video.wixstatic.com/video/f29914_4836041254d646ad9b07f115dc13358b/720p/mp4/file.mp4	NO
32		JULY			Algebraic solutions of Linear inequalities in one variable and their graphical representation	2	NO	NO	NO
33		JULY			Graphical solution of Linear inequalities in Two variables	2	YES	NO	YES
34		JULY			Solution of system of linear inequalities in two variables	3	NO	NO	NO
35		JULY			Practice- extra problems	2	NO	NO	NO
36	NCERT/R D SHARMA	JULY	7	PERMUTATIONS AND COMBINATIONS	Introduction, Fundamental principle of counting- Addition and Multiplication rule	2	NO	NO	NO
37		JULY			Permutations - Arrangement, Factorial notation	2	NO	https://video.wixstatic.com/video/f29914_6103644a61f2492d93700ec8e18ec2fc/720p/mp4/file.mp4	NO
38		JULY			Derivation of the formula for npr	3	NO	NO	NO
39		JULY			Combinations - 'selection'	3	To find the number of ways in which three cards can be selected from given five cards.	NO	NO
40		JULY			Practice- extra problems	3	NO	NO	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
41	NCERT/R D SHARMA	AUGUST	8	BINOMIAL THEOREM	Introduction	1	NO	https://video.wixstatic.com/video/f29914_5a1d5baf7e5f4dc8a45ace6b4bfb03bb/720p/mp4/file.mp4	NO
42		AUGUST			Binomial theorem for Positive integral indices	2	To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.	NO	NO
43		AUGUST			Pascal's triangle	2	NO	NO	NO
44		AUGUST			General and Middle terms	3	NO	NO	NO
45		AUGUST			Practice- extra problems	2	NO	NO	NO
46	NCERT/R D SHARMA	AUGUST	9	SEQUENCE AND SERIES	Introduction, Sequence and Series	2	NO	https://video.wixstatic.com/video/f29914_756a2e64fb7640359b98927ba1f2f3d6/720p/mp4/file.mp4	NO
47		AUGUST			Arithmetic Progression	3	YES	https://video.wixstatic.com/video/f29914_b23c93b77e904e05844969326361c09b/720p/mp4/file.mp4	NO
48		AUGUST			Geometric Progression, General term of a G.P.	2	NO	NO	NO
49		AUGUST			Geometric Mean, Relationship between A.M. and G.M.	4	To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.	NO	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
50	NCERT/R D SHARMA	AUGUST			Practice- extra problems	3	NO	NO	NO
51		AUGUST	10	STRAIGHT LINES	Introduction	1	NO	https://video.wixstatic.com/video/f29914_dbb_aeb06bd304c128a513ebdd21ff91f/720p/mp4/file.mp4	NO
52		SEPTEMBER			Slope of a line	2	NO	https://video.wixstatic.com/video/f29914_103c9d9e286948a8970e280c8a38e8cd/720p/mp4/file.mp4	NO
53		SEPTEMBER			Conditions for parallelism and perpendicularity of lines	1	NO	NO	NO
54		SEPTEMBER			Angles between two lines	2	YES	NO	NO
MID TERM EXAMINATION									
55		SEPTEMBER			Various forms of the Equation of the line	2	NO	NO	NO
56		SEPTEMBER			General Equation of a line	2	NO	NO	NO
57		SEPTEMBER			Distance of a point from a line, Distance between two parallel lines	2	NO	NO	NO
58		SEPTEMBER			Practice- extra problems	2	NO	NO	NO
59	NCERT/R D SHARMA	SEPTEMBER	11	CONIC SECTIONS	Introduction, Sections of a Cone	2	To construct different types of conic sections.	https://video.wixstatic.com/video/f29914_522a209379994e8d82a2c460dcaa5026/720p/mp4/file.mp4	NO
60		SEPTEMBER			Degenerated conic sections- Circles	2	YES	NO	YES
61		SEPTEMBER			Parabola	2	To construct a parabola.	NO	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
62		SEPTEMBER			Ellipse	3	1. To construct an ellipse using a rectangle. 2. To construct an ellipse when two fixed points are given.	NO	NO
63		SEPTEMBER			Hyperbola	3	NO	NO	NO
64		SEPTEMBER			Practice- extra problems	2	NO	NO	NO
65	NCERT/R D SHARMA	OCTOBER	12	INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	Introduction, Coordinate axes and Coordinate planes in three dimensional space	2	To explain the concept of octants by three mutually perpendicular planes in space	NO	NO
66		OCTOBER			Distance between two points	2	YES	NO	NO
67		OCTOBER			Section formula	3	NO	NO	NO
68		OCTOBER			Practice- extra problems	3	NO	NO	NO
69		OCTOBER	13	LIMITS AND DERIVATIVES	Introduction, Intuitive idea of Derivatives	2	NO	https://video.wixstatic.com/video/f29914_9f7aabf260764cd2bd09a73eed8455a5/720p/mp4/file.mp4	NO
70		NOVEMBER			Limits	2	YES	NO	NO
71		NOVEMBER			Algebra of limits	1	NO	NO	NO
72		NOVEMBER			Limits of polynomials and rational functions	2	NO	NO	NO
73		NOVEMBER			Limits of Trigonometric functions	1	NO	NO	NO
		NOVEMBER			Derivatives, First principle of derivative	3	Verification of the geometrical significance of derivative	NO	NO
		NOVEMBER			Algebra of derivative of functions	2	NO	NO	NO
		NOVEMBER			Derivation of polynomials and trigonometric functions	2	NO	NO	NO
		NOVEMBER			Practice- extra problems	2	NO	NO	NO

S.No.	BOOK NAME	MONTH	CHAPTER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIRED	ACTIVITY/PROPS	SMART BOARD(PPT /VIDEO)	CHART
	NCERT/R D SHARMA	DECEMBER	15	STATISTICS	Introduction	2	NO	https://video.wixstatic.com/video/f29914_63596a8caad84c7b86f30a2f0c6d5ddc/720p/mp4/file.mp4	NO
		DECEMBER			Measure of dispersion	1	NO	NO	NO
		DECEMBER			Range, Mean deviation, Mean deviation about median	2	YES	NO	NO
		DECEMBER			Variance and Standard deviation	3	NO	NO	NO
		DECEMBER			Analysis of frequency distributions	2	NO	NO	NO
		DECEMBER			Practice- extra problems	2	NO	NO	NO
		DECEMBER	16	PROBABILITY	Introduction	2	NO	NO	NO
74		DECEMBER			Sample space	2	To write the sample space, when a die is rolled once, twice -----	https://video.wixstatic.com/video/f29914_616284880ea1458e935e199d3d55aaaa/720p/mp4/file.mp4	NO
75					Event, Types of events	2	To write the sample space, when a coin is tossed once, two times, three times, four times.	NO	NO
76					Algebra of events	2	NO	NO	NO
					Axiomatic approach to probability	2	NO	NO	NO

FINAL ASSESSMENT