

THE WISDOM GLOBAL SCHOOL

SYLLABUS BIFURCATION

GRADE - X

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
	NCERT/R D SHARMA	APRIL	1	Real numbers	Introduction	1	NO	https://video.wixstatic.com/video/f29914_7e78619439814f3a8eda8aaf33424dc9/720p/mp4/file.mp4	YES
		APRIL			Fundamental theorem of Airthematic	2		https://video.wixstatic.com/video/f29914_7e78619439814f3a8eda8aaf33424dc9/720p/mp4/file.mp4	NO
		APRIL			Statements after reviewing work done earlier and after illustrating and motivating through examples	3			NO
		APRIL			Hcf and Lcm by prime factorisation method	2			NO
		APRIL			Practice- extra problems	2			NO
1	NCERT/R D SHARMA	APRIL	2	Polynomials	Introduction, Zeroes of a Polynomial	2		https://video.wixstatic.com/video/f29914_7e78619439814f3a8eda8aaf33424dc9/720p/mp4/file.mp4	NO
2		APRIL			Geometrical meaning of zeroes	2	To draw the graph of a quadratic polynomial and observe: (i) The shape of the curve when the coefficient of x^2 is positive. (ii) The shape of the curve when the coefficient of x^2 is negative. (iii) Its number of zeroes.		YES
3		APRIL			Relationship between Zeroes and coefficients of a Polynomial	2			NO

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4		APRIL			Practice questions	2			NO
5	NCERT/R D SHARMA	APRIL	3	Pair of linear equations in two variables	Introduction, Linear equations in one/two variables	1		https://video.wixstatic.com/video/f29914_496edef9801640c1889a7bfb24dc71f2/720p/mp4/file.mp4	NO
6		APRIL			Graphical solution of a pair of linear equations in two variables	2			NO
7		APRIL			Consistency/Inconsistency, Algebraic conditions for number of solutions	2	To verify the conditions of consistency/inconsistency for a pair of linear equations in two variables by graphical method		NO
8		APRIL			Algebraic methods of solving a pair of linear equations- Substitution, Elimination method	3			NO
9		APRIL			Simple situational problems- distance- time, geometrical problems	2			NO
10		APRIL			Practice-Extra problems	2			NO
11	NCERT/R D SHARMA	MAY	4	Quadratic Equations	Introduction, Standard form of a Quadratic Equation	2		https://video.wixstatic.com/video/f29914_24ea64e20f7c4607896c93c691bc3755/720p/mp4/file.mp4	YES
12		MAY			Solution of a quadratic equations by factorisation method	2			NO
13		MAY			Nature of roots, Discriminant	1			NO
14		MAY			Solution of a quadratic equations by Quadratic formula	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	5	Arithmetic Progression	Introduction, Sequence and Series, Arithmetic Progression	2	To identify Arithmetic Progressions in some given lists of numbers (patterns).	https://video.wixstatic.com/video/f29914_6c8ccca5ffe46068d9bb4cb8240ed8f/720p/mp4/file.mp4	NO
18		MAY			General term(nth term) of an A.P.	2			NO

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19		MAY			Sum of the first n terms of an A.P.	2	1. To find the sum of first n natural numbers 2. To establish a formula for the sum of first n terms of an Arithmetic Progression.		no
20		MAY			Sum of the first n natural numbers/odd numbers of an A.P.	2	1. To find the sum of the first n odd natural numbers. 2. To find the sum of the first n-even natural numbers.		NO
21		MAY			Application of A.P. to solve daily life problems	2	YES		NO
22		MAY			Taking number of terms in an A.P.- 3/4/5	1			NO
23		MAY			Practice - Extra problems	2			NO
24	NCERT/R D SHARMA	MAY	6	Triangles	Introduction, Elements of a Triangle, Congruent figures	1		https://video.wixstatic.com/video/f29914_22196a2fa59b4bc7871c724bc895984c/720p/mp4/file.mp4	NO
25		MAY			Similar figures, Similarity of two polygons	1	To draw a system of similar squares, using two intersecting strips with nails		NO
26		JUNE			Basic proportionality theorem (BPT)	2	To verify Basic Proportionality Theorem (Thales theorem).		NO
27		JUNE			Converse of BPT, Some examples	2			NO
28		JUNE			Criteria for Similarity of two triangles- AAA/SAS/SSS	2	To establish the criteria for similarity of two triangles		NO
SUMMER BREAK									
29		JULY			Continue- Criteria for Similarity of two triangles- AAA/SAS/SSS	2	To draw a system of similar triangles, using Y shaped strips with nails.		NO
30		JULY			Practice - Extra problems	2			NO

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31	NCERT/R D SHARMA	JULY	6	Coordinate Geometry	Introduction, Cartesian system	2		https://video.wixstatic.com/video/f29914_63e360fdbd6d4c2d85c70c7721556525/720p/mp4/file.mp4	YES
32		JULY			Distance formula- Distance between two points	2	To verify the distance formula by graphical method		YES
33		JULY			Section formula, Mid point formula	3	To verify section formula by graphical method.		NO
34		JULY			Practice- extra problems	2			NO
35	NCERT/R D SHARMA	JULY	7	Introduction to Trigonometry	Introduction	1			NO
36		JULY			Trigonometric Ratios of an acute angle of a right angled triangle	2		https://video.wixstatic.com/video/f29914_f933d23831534b13b47144249b9ebaf2/720p/mp4/file.mp4	YES
37		JULY			Relationship between T- Ratios	1			NO
38		JULY			Values of the T- ratios for some specific angles- 30/45/60/90	2			NO
39		JULY			Trigonometric identities	2		https://video.wixstatic.com/video/f29914_258d2f7be1a34c6a97bb0b660f2859dd/720p/mp4/file.mp4	NO
40		JULY			Practice- extra problems	2			NO
41	NCERT/R D SHARMA	AUGUST	8	Some applications of Trigonometry	Introduction	2		https://video.wixstatic.com/video/f29914_bd854d2e956349e39a102c6bed9dd06c/720p/mp4/file.mp4	NO
42		AUGUST			Angle of Elevation, Angle of dipression	2	To find the height of a building using a clinometer.		NO
43		AUGUST			Simple problems on Heights and Distances	4			NO
44		AUGUST			Practice- extra problems	2			NO
45	NCERT/R D SHARMA	AUGUST	10	Circles	Introduction, Tangent, Secant	1		https://video.wixstatic.com/video/f29914_a42c22d2239147439ec097b41b6149da/720p/mp4/file.mp4	NO

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46		AUGUST			Tangent to a circle at point of contact	1	To find the number of tangents from a point to a circle		NO
47		AUGUST			(Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact	2	To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.		NO
48		AUGUST			(Prove) The lengths of tangents drawn from an external point to a circle are equal.	3	To verify that the lengths of tangents to a circle from some external point		YES
49		AUGUST			Practice- extra problems	3			NO
50	NCERT/R D SHARMA	AUGUST	12	Area related to the circles	Introduction, Parts of a circle	2	To obtain formula for area of a circle experimentally.	https://video.wixstatic.com/video/f29914_19166e46048d4c2f95d97407a3dfa39d/720p/mp4/file.mp4	NO
51		AUGUST			Circumference and Area of a circle	2			NO
52		SEPTEMBER			Area of sector and segment of a circle	2			NO
53		SEPTEMBER			Problems based on Areas and perimeter/ Circumference	2			NO
54		SEPTEMBER			Practice- extra problems	2			NO
MID TERM EXAMINATION									
55	NCERT/R D SHARMA	OCTOBER	13	Surface Areas and Volumes	Introduction	2		https://video.wixstatic.com/video/f29914_8f6ac17a84e541cb9be557663f7086ba/720p/mp4/file.mp4	NO
56		OCTOBER			Surface Areas of combination of Solids	3			NO
57		OCTOBER			Volumes of combination of two solids	3			NO
58		OCTOBER			Conversion of solids	3			NO
59		OCTOBER			Practice- extra problems	3			NO
60	NCERT/R D SHARMA	OCTOBER	14	Statistics	Introduction	2		https://video.wixstatic.com/video/f29914_4287e8390bb9477eb9e9ceff6b1c03f9c/720p/mp4/file.mp4	NO
61		OCTOBER			Mean of Grouped data- Direct method, Assumed mean method	2			NO

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62		OCTOBER			Median of Grouped data	3			NO
63		NOVEMBER			Mode of Grouped data	2			NO
64		NOVEMBER			Practice- extra problems	2			NO
65	NCERT/R D SHARMA	NOVEMBER	15	Probability	Introduction, terms related to this topic	2		https://video.wixstatic.com/video/f29914_3450f2c0e147432fb95e675207e9a0fe/720p/mp4/file.mp4	NO
66		NOVEMBER			Classical definition of Probability	3	To determine experimental probability of 1, 2, 3, 4, 5 or 6 by throwing a die 500 times and compare them with their theoretical probabilities.		NO
67		NOVEMBER			Simple problems on finding the Probability of an event	3	To determine experimental probability of a head (or a tail) by tossing a coin 1000 times and compare it with its theoretical probability.		NO
68		NOVEMBER			Practice- extra problems	2			NO
69		DECEMBER		Preboard Examination					NO
70		JANUARY		Preboard Examination					NO
71		FEBURARY							NO

FINAL ASSESSMENT