

O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for the session 2023-2024

Subject : Mathematics

Class:- X

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	April	21	28	1. Real Numbers 2. Polynomials 3. Pair of linear equations in two variables	<ul style="list-style-type: none">• Daily practice problems• MCQ• Peer assessment• Brain storming• Inductive and deductive learning	<p>Students will know and understand</p> <ul style="list-style-type: none">• Irrational nature of number by developing critical thinking.• Application of LCM and HCF in day to day life.• Relationship between zeroes and coefficient of a polynomial.• Consistency and inconsistency of pair of linear equation.	MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.

2.	June	11	15	3. Pair of linear equations in two variables 4. Quadratic Equations	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Peer assessment • Brain storming • Inductive and deductive learning. 	<p>Students will know and understand</p> <ul style="list-style-type: none"> • Solution of pair of linear equation by various methods. • Roots of quadratic equation • Nature of the roots of the quadratic equation. • To apply quadratic equation in day to day life. 	<p>MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.</p>
3	July	23	30	5. Arithmetic Progression 6. Triangles	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Peer assessment • Brain storming • Inductive and deductive learning 	<p>Students will be able to</p> <ul style="list-style-type: none"> • define sequence , series and progressions • nth term and sum of the nth term of AP. • Understand the difference between similar and congruent figures. • Know the condition for 	<p>MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.</p>

						<p>similarity of triangles.</p> <ul style="list-style-type: none"> • Apply the concept of AP and triangles to solve problems. 	
4	August	23	30	<p>7. Coordinate Geomaty 8. Introduction to Trigonometry 9. Application of Trigonometry</p>	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Verification of Basic propotionality theorem • Brain storming • Inductive and deductive learning • To divide the classroom into four quadrants by drawing two axis at the centre, the to determine the position of each student and apply distance formula. 	<p>Students will be able to define and understand</p> <ul style="list-style-type: none"> • Position of point in a plane. • Distance between two points and apply the to find section formula. • The relationship between sides and angles of a right angle triangle • the concept of trigonometry to find height and distance of objects in different situations. 	<p>MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.</p>

5	September	12	16	10. Circles Revision and Assesement	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Peer assesement • Brain storming • Inductive and deductive learning • Measuring height with clinometer. • Use Bangles and sticks to verify theorems on tangents. 	<p>Students will be able to</p> <ul style="list-style-type: none"> • Understand different parts of circles. • Understand the concept of tangents of circles and apply them in day to day life like reflection of light etc. 	MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.
6	October	20	27	11. Area related to Circle 12. Surface area and volume	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Peer assesement • Brain storming • Inductive and deductive learning 	<p>Students will be able to</p> <p>Know and understand</p> <ul style="list-style-type: none"> • the perimeter and area of different parts of circle like segment and sector. • Surface area and volume of different 3D shapes and combinations of solids. 	MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.

7.	November	13	17	13. Statistics 14. Probability	<ul style="list-style-type: none"> • Daily practice problems • MCQ • Peer assessment • Brain storming • Inductive and deductive learning. 	<p>Students will be able to Know and understand</p> <ul style="list-style-type: none"> • data, its types and use the data to find mean , median and mode of data in different situation and apply them in day to day life. • Axiomatic approach to probability. • Different terms related to probability. • Problems related to probability and methods to solve them. 	MCQ and some extra questions to be discuss in the class from RS Aggarwal and NCERT exemplar.
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SYLLABUS FOR EXAMINATION

SN	EXAMINATION	MONTH	MAXIMUM MARKS	MAXIMUM MARKS	SYLLABUS(Ch. No.)
1	TEST – 1	July	20	1 Hr	1, 2, 3, 4
2	Half Yearly Examination	September	80	3 Hrs.	1, 2, 3, 5, 6, 7, 8
3	Preboard - I	December	80	3 Hr	Full Syllabus
4	Preboard - II	January	80	3 Hr	Full Syllabus
4	Board Examination	February/March	80	3 Hrs.	Full Syllabus

