<u>DELHI PUBLIC SCHOOL, JAMMU</u> <u>SYLLABUS BIFURCATION</u> <u>SESSION: 2023-24</u>

Class: XI Subject: Mathematics (041)

Objectives:

The broad objective of teaching Mathematics at Senior School stage intends to help the students:

- 1. To acquire knowledge and critical understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills.
- 2. To feel the flow of reasons while proving a result or solving a problem.
- 3. To apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- 4. To develop positive attitude to think, analyze and articulate logically.
- 5. To develop interest in the subject by participating in related competitions.
- 6. To acquaint students with different aspects of Mathematics used in daily life.
- 7. To develop an interest in students to study Mathematics as a discipline.
- 8. To develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases.
- 9. To develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

S.No	Month	Name of units
1	April	Sets, Relations and functions
	_	Foundation worksheet:- To understand students previous knowledge and for
		the revision of previous concepts of well defined collections and collection
		which are not well defined.
		Activity-1:- 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 .
2	May	Trigonometric Functions
		Assignment-1 on the topic Trigonometric Functions to provide opportunity for
		students to practice and also develop critical thinking and independent
		problem-solving skills.
		Activity-2:- To verify the relation between degree measure and radian measure
		of an angle.
		Kahoot Quiz on Trigonometric functions to test the knowledge of students.
		Sample paper -1:
		Topics:
		1. Sets
		2. Relations and functions
3	June	Algebra (Complex numbers and quadratic equations)
		Class test-1:- To evaluate the understanding of abstract concepts of the
		students on the topic Sets, Relations and functions and Trigonometric
		Functions
		Team exercise (Power point presentation) on Trigonometric Functions.
4	July	Algebra (Linear Inequalities, Permutation and combination)
		Foundation worksheet on linear inequalities for the revision of previous
		concepts.
		Assignment-2 on the topic Linear Inequalities, Permutation and combination.
5	August	Algebra (Binomial Theorem, Sequence and Series)
		Experiential learning: - To enhance the knowledge and skill of the students.
		Assignment-3 on the topic Binomial Theorem, Sequence and Series.

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6. Permutation and combination 7. Binomial Theorem 8. Sequence and Series 9. Straight lines			
7. Binomial Theorem 8. Sequence and Series 9. Straight lines			•
8. Sequence and Series 9. Straight lines			6. Permutation and combination
9. Straight lines			7. Binomial Theorem
9. Straight lines			8. Sequence and Series
			•
10. Conic sections			
11. Introduction to Three dimensional geometry			· ·
12. Limits and derivatives			
13. Statistics			
14. Probability			14. Probability
10 January > Case study questions	10	January	Case study questions
11 February > Revision	11	February	> Revision
12 March > Revision	12		> Revision

Exam Schedule:

Syllabus of Cycle Test-1:

- 1. Sets
- 2. Relations and functions

Syllabus of Half – Yearly:

- 1. Sets
- 2. Relations and functions
- 3. Trigonometric Functions
- 4. Complex numbers and quadratic equations
- 5. Linear Inequalities
- 6. Permutation and combination
- 7. Binomial Theorem
- 8. Sequence and Series

Syllabus of Cycle Test-2:

- 1. Straight lines
- 2. Conic sections
- 3. Introduction to Three dimensional geometry

Syllabus for Final Examination:

- 1. Sets
- 2. Relations and functions
- 3. Trigonometric Functions
- 4. Complex numbers and quadratic equations
- 5. Linear Inequalities
- 6. Permutation and combination
- 7. Binomial Theorem
- 8. Sequence and Series
- 9. Straight lines
- **10.** Conic sections
- 11. Introduction to Three dimensional geometry
- 12. Limits and derivatives
- 13. Statistics
- 14. Probability

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Subject Coordinator