



N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2026-2027

Class-XI	Subject-(041) Mathematics	Subject Teacher(Prepared by): VC		Designation : PGT		
Preferred Text Book /Material	Chapter's Name	Chapter Topic/Sub Topic	Term	Start Date	End Date	No. of Pds.
Mathematics	Sets	Sets and their representations, Empty set, Finite and infinite sets ,Equal sets,	I	16-04-2026	18-04-2026	4
Textbook for		Subsets, Subsets of a set of real numbers especially intervals (with notations)		20-04-2026	24-04-2026	7
Class XI		Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets		27-04-2026	02-05-2026	7
Published by		Complement of a set. Properties of Complement.				
NCERT						
	<i>Relation and Functions</i>	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $R \times R \times R$).	I	04-05-2026	08-05-2026	7
Mathematics		Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.				
Exemplar		Function as a special type of relation. Pictorial representation of a function, domain,		11-05-2026	18-05-2026	9
Problem for Class XI		co-domain and range of a function. Real valued functions, domain and range of these				
Published by		functions, constant, identity, polynomial, rational, modulus, signum, exponential,				
NCERT		logarithmic and greatest integer functions, with their graphs. Sum, difference,				
		product and quotients of functions.				
		Quick revision of chapters Sets, Relations and functions		01-07-2026	04-07-2026	5
Mathematics						
<i>Lab Manual</i>	<i>Trigonometric Functions</i>	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions	I	06-07-2026	10-07-2026	7
for Class XI		with the help of unit circle .Truth of the identity $\sin^2x + \cos^2x = 1$, for all x.		13-07-2026	18-07-2026	8
Published by		Signs of trigonometric functions				
NCERT		Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications.	I	20-07-2026	24-07-2026	7

		Deducing identities Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$				
	<i>Complex Nos & Quadratic Equations</i>	Introduction, Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane	I	27-07-2026	01-08-2026	8
	<i>Revision</i>	Revision for First Periodic Test	I	03-08-2026	07-08-2026	7
	<i>Linear Inequality</i>	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.	I	10-08-2026	14-08-2026	5
	<i>Sequence & Series</i>	Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P.	I	17-08-2026	21-08-2026	7
		sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M	I	24-08-2026	31-08-2026	6
	<i>Statistics</i>	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.	I	01-09-2026	05-09-2026	6
	<i>Practicals & Revision</i>	Practical Examination & Revision for Half yearly Examination 2026-27	I	07-09-2026	11-09-2026	7
	<i>Half yearly Exam</i>	Half yearly Examination 2026-2027	I	14-09-2026	28-09-2026	HY
	<i>Permutations & Combinations</i>	Fundamental principle of counting. Factorial n . ($n!$) Permutations and combinations, derivation of Formulae for nPr and nCr and their connections, simple applications.	II	29-09-2026	04-10-2026	4
				05-10-2026	09-10-2026	7
	<i>Binomial Expansion</i>	Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.	II	12-10-2026	17-10-2026	8
	<i>Straight lines</i>	Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines.	II	21-10-2026	31-10-2026	7
	<i>Revision</i>	Revision for Second Periodic Test & Miscellaneous Questions	II	02-11-2026	06-11-2026	7

		Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line	II	12-11-2026	16-11-2026	4
	Conic Section	Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section.	II	17-11-2026	21-11-2026	7
		Standard equations and simple properties of parabola, ellipse and hyperbola.	II	23-11-2026	30-11-2026	6
		Standard equation of a circle.Miscellaneous Examples				
	Introduction	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point.	II	01-12-2026	04-12-2026	6
	<i>to 3-D Geometry</i>	Distance between two points.				
	Limit & Derivative	Derivative introduced as rate of change both as that of distance function and geometrically.Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.	II	07-12-2026	11-12-2026	7
		Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions.	II	14-12-2026	19-12-2026	8
		Derivatives of polynomial and trigonometric functions.Miscellaneous Questions	II	21-12-2026	31-12-2026	9
	<i>Probability</i>	Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events,, Axiomatic (set theoretic) probability, connections with other theories of earlier classes.	II	16-01-2027	22-01-2027	8
		Probability of an event, probability of 'not', 'and' and 'or' events		25-01-2027	30-01-2027	6
	<i>Practicals & Revision</i>	Practical Examination & Revision for Annual Examination 2026-27	II	01-02-2027	06-02-2027	9
	<i>Revision</i>	Chapterwise Revision for Annual Examination 2026-27	II	08-02-2027	19-02-2027	15
	Annual Exam	Annual Examination 2026-27	II	22-02-2027	05-03-2027	AE
	Prepared by:	VC:Sign.				
	Sub. Co-ordinator:	KKJ:Sign.				



N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026
Marking Scheme for First Periodic Examination 2026-27

Class-XI Sub:-Mathematics (041) Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Sets	11
2	Relation & Functions	9
Total		20

Marking Scheme for Half Yearly Examination 2026-27

Class-XI Sub:-Mathematics (041) Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Sets	12
2	Relation & Functions	9
3	Trigonometric Functions	16
4	Complex Nos & Quadratic Equatons	8
5	Linear Inequlity	10
6	Sequence&Series	15
7	Statitics	10
Total		80

Marking Scheme for Second Periodic Examination 2026-27

Class-XI Sub:-Mathematics (041) Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Permutation & Combination	13
2	Binomial Theorem	07
Total		20

Marking Scheme for Third Periodic Examination 2026-27

Class-XI Sub:-Mathematics (041) Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Straight lines	20

Marking Scheme for Annual Examination 2026-27

Class-XI Sub:-Mathematics (041) Time:-45 minutes

S.No.	Chapter/ Topic	Max.Marks
1	Set	4
2	Relation and functions	4
3	Trigonometric functions	9
4	Complex Nos & Quadratic Equatons	4
5	Linear Inequlity	6
6	Permutation & Combination	5
7	Binomial Theorem	4
8	Sequence&Series	4
9	Straight lines	8
10	Conic Section	9
11	Introduction of 3D	4
12	Limit & Derivative	9
13	Statitics	4
14	Probability	6
Total		80

Co-ordinator Name-KKJ
Subject Teacher Name: VC
Subject Teacher Name: KKJ

Sign.
Sign.
Sign.



N.C. JINDAL PUBLIC SCHOOL

Road No.-73, PUNJABI BAGH (W), NEW DELHI-110026

(Session : 2026-2027)

CLASS: -XI

MATHEMATICS (041)

Internal Assessment Max. Marks: 20

Evaluation Criteria

Periodic Test(Best 2 out of 3 test conducted)	10 Marks
The activity performed by the student throughout the year and record keeping:	5 Marks
Assessment of the activity performed during the year end test:	3 Marks
Viva-Voce:	2 Marks