



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

| Class-XII  | Sub-Mathematics(041)                      | Subject Teacher(Prepared by): VC  |      | Designation: PGT |            |            |
|--|---|---|------|------------------|------------|------------|
| Preferred Text Book /Material                                    | Chapter's Name                            | Chapter Topic/Sub Topic   | Term | StartDate        | End Date   | No of Pds. |
| Mathematics Textbook for Class XII Part- I &II NCERT Publication | <i>Matrices</i>                           | Introduction,Type,Operation, Transpose ,Inverse of Matrices and their uniqueness,Symmetric & Skew Symmetric of Matrices,  | I    | 01-04-26         | 10-04-2026 | 11         |
| Mathematics Exemplar Problem Class XII Published by NCERT        | <i>Determinants</i>                       | Introduction of Determinants and Area of a triangle, Miscellaneous Questions Minors, cofactors,Adjoint and inverse of Matrices  | I    | 13-04-2026       | 18-04-2026 | 7          |
| Mathematics Lab <i>Mannual Class XII</i> Published by NCERT      | <i>Relations and Functions</i>            | Consistency, inconsistency and number of solutions of system of linear equations by examples,solving system of linear equations in two or three variables using (having unique solution) inverse of a matrix. | I    |                  |            |            |
| Mathematics Lab <i>Mannual Class XII</i> Published by NCERT      | <i>Relations and Functions</i>            | Types of relations: reflexive, symmetric, transitive & equivalence relations. One to one and onto functions   | I    | 20-04-2026       | 24-04-2026 | 7          |
|  | <i>Revision</i>                           | Revision for First PeriodicTest 2026-27   | I    | 27-04-2026       | 02-05-2026 | 8          |
|  | <i>InverseTrigonometric functions</i>     | Definition, range, domain, principal value branch<br>Graphs of inverse trigonometric functions  | I    | 04-05-2026       | 08-05-2026 | 7          |
|  | <i>Continuity &amp; Differentiability</i> | Checking of Continuity Differentiability of function<br>Chain Rule,Differentiation of Implicit function   | I    | 11-05-2026       | 18-05-2026 | 9          |
|  |   | Introduction of Log,Derivative of Log,Exponential &   | I    | 01-07-2026       | 04-07-2026 | 6          |

|  |                                   |   |   |            |            |   |
|--|-----------------------------------|---|---|------------|------------|---|
|  |                                   | parametric function Second order Derivative   |   |            |            |   |
|  |                                   |   |   |            |            |   |
|  |                                   | Miscellaneous & Additional Questions based on derivatives   | I | 06-07-2026 | 10-07-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  | <i>Application of derivatives</i> | Introduction,Rate Measure, Increasing & Decreasing Maxima &Minima of functions,Miscellaneous Problem                        | I | 13-07-2026 | 18-07-2026 | 9 |
|  |                                   |   |   |            |            |   |
|  |                                   | Simple problems (that illustrate basic principles and understanding of the subject as well as real- life situations).       | I | 20-07-2026 | 24-07-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  | <i>Integrals</i>                  | Introduction,Method of Integration,Integrals of Particular function Integration by Partial Fraction, by Parts               | I | 27-07-2026 | 01-08-2026 | 8 |
|  |                                   |   |   |            |            |   |
|  | <i>Revision</i>                   | Revision for Second PeriodicTest 2026-27  | I | 03-08-2026 | 07-08-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  | <i>Integrals</i>                  | Introduction of Defnite Integrals Evaluation of Defnite Integrals by Definition &Substitution                               | I | 10-08-2026 | 14-08-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  |                                   | Evaluation of Defnite Integrals by Property Miscellaneous Questions   | I | 17-08-2026 | 21-08-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  | <i>Application of Integrals</i>   | Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only) | I | 24-08-2026 | 29-08-2026 | 6 |
|  |                                   |   |   |            |            |   |
|  | <i>Linear Programming</i>         | Introduction ,Formation and Graphical solution of LPP Miscellaneous Questions   | I | 31-08-2026 | 05-09-2026 | 7 |
|  |                                   |   |   |            |            |   |
|  | <i>Revision</i>                   | Revision for Half Yearly Examination 2026-27  | I | 07-09-2026 | 11-09-2026 | 6 |

|  |                                       |  |    |            |            |    |
|--|---------------------------------------|--|----|------------|------------|----|
|  |                                       |  |    |            |            |    |
|  | <i>Examination</i>                    | Half Yearly Examination 2026-27                      | I  | 14-09-2026 | 28-09-2026 | 0  |
|  |                                       |  |    |            |            |    |
|  | <i>Differential equations</i>         | Introduction,Basic Concept Degree &Order             | II | 29-09-2026 | 03-10-2026 | 4  |
|  |                                       | Method of Solution,Miscellaneous Questions           |    |            |            |    |
|  |                                       |  |    |            |            |    |
|  | <i>Probability</i>                    | Introduction,Conditional probability, multiplication | II | 05-10-2026 | 09-10-2026 | 7  |
|  |                                       | theorem on probability,Independent events,           |    |            |            |    |
|  |                                       |  |    |            |            |    |
|  |                                       | Total probability, Bayes' theorem.                   | II | 12-10-2026 | 17-10-2026 | 8  |
|  |                                       |  |    |            |            |    |
|  | <i>Vector Algebra</i>                 | Introduction,Basic Concept,Algebra & product of      | II | 21-10-2026 | 31-10-2026 | 9  |
|  |                                       | Vector, Miscellaneous Questions                      |    |            |            |    |
|  |                                       |  |    |            |            |    |
|  | <i>Revision</i>                       | Revision for Third PeriodicTest 2026-27              |    | 02-11-2026 | 06-11-2026 | 7  |
|  |                                       |  |    |            |            |    |
|  |                                       | Properties and application of scalar (dot) product   | II | 12-11-2026 | 21-11-2026 | 10 |
|  |                                       | of vectors, vector (cross) product of vectors.       |    |            |            |    |
|  |                                       |  |    |            |            |    |
|  | <i>Three Dimentional</i>              | Introduction,Direction cosines and direction ratios  | II | 23-11-2026 | 27-11-2026 | 5  |
|  | <i>Geometry</i>                       | of a line joining two points. Cartesian equation and |    |            |            |    |
|  |                                       | vector equation of a line,skew lines, shortest       |    |            |            |    |
|  |                                       | distance between two lines.Angle between two lines.  |    |            |            |    |
|  |                                       |  |    |            |            |    |
|  | <i>Revision</i>                       | Revision for Pre- Board Examination 2026-27          | II | 30-11-2026 | 05-12-2026 | 7  |
|  |                                       |  |    |            |            |    |
|  | <i>Examination</i>                    | Pre- Board Examination 2026-27                       | II | 07-12-2026 | 21-12-2026 | 0  |
|  |                                       |  |    |            |            |    |
|  | <i>Revision</i>                       | Revision Classes for Board Examination 2026-27       | II | 22-12-2026 | 31-12-2026 | 12 |
|  |                                       |  |    |            |            |    |
|  | <b>Prepared by: VC</b>                | <b>Sign.</b>   |    |            |            |    |
|  | <b>MATHEMATICS CO-ORDINATOR : KKJ</b> |  |    |            |            |    |



# N.C. JINDAL PUBLIC SCHOOL

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

(Session : 2026-2027)

## Chapter-wise Weightage/Syllabus Planning

For First Periodic Examination 2026-27

Class-XII

Sub:-Mathematics(041)

Time:- 45 minutes

Marking Scheme

| Sl.No. | Chapter/ Topic                     | Max.Marks |
|--------|------------------------------------|-----------|
| 1      | <i>Matrices &amp; Determinants</i> | 20        |

Syllabus Planning for Second Periodic Examination 2026-27

Class-XII

Sub:-Mathematics(041)

Time:- 45 minutes

Marking Scheme

| Sl.No. | Chapter/ Topic                            | Max.Marks |
|--------|---|-----------|
| 1      | <i>Relations and Functions</i>            | 7         |
| 2      | <i>Continuity &amp; Differentiability</i> | 13        |
|        | <b>Total</b>                              | <b>20</b> |

Syllabus Planning for Half Yearly Examination 2026-27

Class-XII

Sub:-Mathematics (041)

Time:-3 hours

Marking Scheme

| Sl.No. | Chapter/ Topic                            | Max.Marks |
|--------|---|-----------|
| 1      | <i>Relations and Functions</i>            | 6         |
| 2      | <i>Inverse Trigo functions</i>            | 4         |
| 3      | <i>Matrices &amp; Determinants</i>        | 18        |
| 4      | <i>Continuity &amp; Differentiability</i> | 9         |
| 5      | <i>Application of derivatives</i>         | 9         |
| 6      | <i>Integrals</i>                          | 17        |
| 7      | <i>Application of Integrals</i>           | 9         |
| 8      | <i>Linear Programming</i>                 | 8         |
|        | <b>Total</b>                              | <b>80</b> |

**Syllabus Planning for Third Periodic Examination 2026-27**

**Class-XII**

**Sub:-Mathematics(041)**

**Time:- 45 minutes**

**Marking Scheme**

| <b>Sl.No.</b> | <b>Chapter/ Topic</b>         | <b>Max.Marks</b> |
|---------------|-------------------------------|------------------|
| <i>1</i>      | <i>Differential equations</i> | <i>7</i>         |
| <i>2</i>      | <i>Probability</i>            | <i>13</i>        |
|               | <b><i>Total</i></b>           | <b><i>20</i></b> |

**Syllabus Planning for Pre Board Examination 2026-27**

**Class-XII**

**Sub:-Mathematics (041)**

**Time:-3 hours**

**Marking Scheme**

| <b>Sl.No.</b> | <b>Chapter/ Topic</b>                   | <b>Max.Marks</b> |
|---------------|---|------------------|
| <i>1</i>      | <i>Relations and Functions</i>          | <i>8</i>         |
| <i>2</i>      | <i>Algebra</i>                          | <i>10</i>        |
| <i>3</i>      | <i>Calculus</i>                         | <i>35</i>        |
| <i>4</i>      | <i>Vector Algebra &amp; 3D Geometry</i> | <i>14</i>        |
| <i>5</i>      | <i>Linear Programming</i>               | <i>5</i>         |
| <i>6</i>      | <i>Probability</i>                      | <i>8</i>         |
|               | <b><i>Total</i></b>                     | <b><i>80</i></b> |
|               | <b>Prepared by: VC</b>                  | <b>Sign.</b>     |
|               | <b>MATHEMATICS CO-ORDINATOR : KKJ</b>   |                  |



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***CLASS: -XII***

***MATHEMATICS (041)***

***Internal Assessment Max. Marks: 20***

***Evaluation Criteria***

**The weightage is as under**

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