

**THE WISDOM GLOBAL SCHOOL**  
**SYLLABUS BIFURCATION**  
**GRADE - 9**  
**SUBJECT:- MATHEMATICS**  
**NAME OF BOOK :- NCERT**  
**NAME OF THE TEACHER:- MS. POOJA SHARMA**

| S.NO | BOOK NAME | MONTH | CHAPTER NUMBER | CHAPTER NAME  | SUB-TOPICS                                   | NO. OF DAYS REQUIRED | ACTIVITY   | material required   | video link  |
|------|-----------|-------|----------------|---------------|--|----------------------|--|---|---|
| 1    | NCERT     | April | 1              | NUMBER SYSTEM | Introduction                                 | 1                    | to make the square root spiral with the help of paper folding. | thread , scale, pencile, card board, scissor, geometry box, fevistick , gum | <a href="https://video.wixstatic.com/video/f29914_f24af46d02d7467c8f6b010c10436631/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_f24af46d02d7467c8f6b010c10436631/720p/mp4/file.mp4</a> |
| 2    |           |       |                |               | Irrational Numbers                           | 1                    |  |   |   |
| 3    |           |       |                |               | Real Numbers and their Decimal Expansions    | 1                    |  |   |   |
| 4    |           |       |                |               | Representing Real Numbers on the Number Line | 1                    |  |   |   |
| 5    |           |       |                |               | Operations on Real Numbers                   | 1                    |  |   |   |
| 6    |           |       |                |               | Laws of Exponents for Real Numbers           | 2                    |  |   |   |
| 7    |           |       |                |               | Rationalisation                              | 3                    |  |   |   |
| 8    |           |       |                |               | Introduction                                 | 1                    |  |   |   |

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|------|-----------|-------|----------------|---------------------|---------------------------------------|----------------------|-------------------------------|--|---|
| 9    | NCERT     | April | 2              | POLYNOMIALS         | Polynomials in One Variable           | 1                    | verify the algebraic identity | coloured glazed paper, pair of scissor , gum/fevistick , ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_3bae4fa6c8ac4415b35faca8aaf49681/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_3bae4fa6c8ac4415b35faca8aaf49681/720p/mp4/file.mp4</a> |
| 10   |           |       |                |                     | Zeroes of a Polynomial                | 1                    |                               |  |   |
| 11   |           |       |                |                     | Remainder Theorem                     | 2                    |                               |  |   |
| 12   |           |       |                |                     | Factorisation of Polynomials          | 2                    |                               |  |   |
| 13   |           |       |                |                     | Algebraic Identities                  | 2                    |                               |  |   |
| 14   |           |       |                |                     | Extended Exercise questions           | 1                    |                               |  |   |
| 15   |           |       |                |                     | Test                                  | 1                    |                               |  |   |
| 16   | NCERT     | MAY   | 3              | COORDINATE GEOMETRY | Cartesian System                      | 1                    | graph activity                | graph paper, pencil, ruler   |   |
| 17   |           |       |                |                     | Plotting of graphs in cartesian plane | 1                    |                               |  |   |
| 18   |           |       |                |                     | Quadrant System                       | 1                    |                               |  |   |
| 19   |           |       |                |                     | Distance Formula                      | 1                    |                               |  |   |
| 20   |           |       |                |                     | Section formula                       | 1                    |                               |  |   |
| 21   |           |       |                |                     | Area of Triangle                      | 1                    |                               |  |   |
| 22   |           |       |                |                     | Exercise questions                    | 1                    |                               |  |   |
| 23   | test      | 1     |                |                     |                                       |                      |                               |  |   |
| 24   |           |       |                |                     | Introduction                          | 1                    |                               |  |   |

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| 25   | NCERT     | JULY   | 4              | LINEAR EQUATION OF TWO VARIABLES | Graphical representation of Linear equations on graph     | 1                    | To verify intersection point of pair of lines on graph   | graph paper, pencil, ruler,  | <a href="https://video.wixstatic.com/video/f29914_b922a85ca4bc44f1a6c510af112c5b9e/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_b922a85ca4bc44f1a6c510af112c5b9e/720p/mp4/file.mp4</a> |
| 26   |           |        |                |                                  | Algebraic and graphical solutions                         | 2                    |  |  |   |
| 27   |           |        |                |                                  | Consistency/Inconsistency                                 | 2                    |  |  |   |
| 28   |           |        |                |                                  | Algebraic Condition of Solutions                          | 2                    |  |  |   |
| 29   |           |        |                |                                  | Solutions of Linear Equation (Elimination & Substitution) | 2                    |  |  |   |
| 30   |           |        |                |                                  | Extended Exercise questions                               | 1                    |  |  |   |
| 31   |           |        |                |                                  | Test  | 1                    |  |  |   |
| 35   |           |        |                |                                  | Introduction  | 1                    | To verify the all the equal angles like vertically opposite, corresponding angles, alternate interior angles | coloured glazed paper, pair of scissor, gum/fevistick, ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_0f9f64306e7b488ebd0192edffa83274/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_0f9f64306e7b488ebd0192edffa83274/720p/mp4/file.mp4</a> |
| 36   |           |        |                |                                  | Sum of two adjacent angles                                | 1                    |  |  |   |
| 37   |           |        |                |                                  | Vertical Opposite Angles                                  | 1                    |  |  |   |
| 38   | NCERT     | July   | 6              | LINES AND ANGLES                 | Alternate Angles  | 1                    |  |  |   |
| 39   |           |        |                |                                  | Interior Angles   | 1                    |  |  |   |
| 40   |           |        |                |                                  | Angle sum of triangle                                     | 1                    |  |  |   |
| 41   |           |        |                |                                  | Exterior Angles   | 1                    |  |  |   |
| 42   |           |        |                |                                  | Extended Exercise questions                               | 2                    |  |  |   |
| 43   | NCERT     | August | 7              | TRIANGLES                        | Congruent triangle (SAS, ASA, SSS, RHS)                   | 2                    | To verify the mid point theorem for the triangle using paper cutting and                                     | coloured glazed paper, pair of scissor, gum/fevistick,                             | <a href="https://video.wixstatic.com/video/f29914_d033bc1df5cb4d329d9bad7d524212d2/720p/mp4">https://video.wixstatic.com/video/f29914_d033bc1df5cb4d329d9bad7d524212d2/720p/mp4</a>                   |
| 44   |           |        |                |                                  | Angle Opposite to equal sides are equal                   | 2                    |  |  |   |
| 45   |           |        |                |                                  | BPT   | 3                    |  |  |   |

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| 46                     |           |        |                |                | Extra Questions   | 1                    | paper cutting and pasting.   | ruler, pencil, geometry box  | <a href="https://www.youtube.com/watch?v=70524741694/720p/mp4/file.mp4">70524741694/720p/mp4/file.mp4</a>   |
| 47                     |           |        |                |                | Extra questions   | 1                    |  |  |   |
| 48                     |           |        |                |                | Test  | 1                    |  |  |   |
| 49                     | NCERT     | August | 8              | QUADRILATERALS | Introduction  | 1                    | To verify that the opposite angles of a cyclic quadrilateral are supplementary | coloured glazed paper, pair of scissor, gum/fevistick, ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_b8e7ed9020a9433899dc82bf314d424e/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_b8e7ed9020a9433899dc82bf314d424e/720p/mp4/file.mp4</a> |
| 50                     |           |        |                |                | Diagonal divides a parallelogram into two congruent triangles | 1                    |  |  |   |
| 51                     |           |        |                |                | Parallelogram   | 1                    |  |  |   |
| 52                     |           |        |                |                | Mid Point Theorem   | 2                    |  |  |   |
| 53                     |           |        |                |                | Extra Questions   | 1                    |  |  |   |
| <b>MID - TERM EXAM</b> |           |        |                |                |   |                      |  |  |   |

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| 60   |           |         |                |              | Definition of circle and related concepts                       | 2                    | To verify that the angle subtended by an arc of a circle at the centre is double the angle subtended by it at any point on the remaining part of the circle. | Cardboard, coloured drawing sheets, scissors, sketch pens, adhesive, geometry box, transparent sheet. | <a href="https://youtu.be/gamRKwZQfg?si=jyYg0pjqw fKPFyMj">https://youtu.be/gamRKwZQfg?si=jyYg0pjqw fKPFyMj</a> |
| 61   |           |         |                |              | Radius, circumference, chord, sector, segment, subtended angles | 2                    |  |   |   |
| 62   | NCERT     | October | 10             | CIRCLES      | Equal chords subtends equal angles at the centre and converse.  | 3                    |  |   |   |
| 63   |           |         |                |              | Angle in the same segment of the circle are equal.              | 2                    |  |   |   |
| 64   |           |         |                |              | Tangent to a circle   | 2                    |  |   |   |
| 65   |           |         |                |              | Extra Questions   | 3                    |  |   |   |
| 66   |           |         |                |              | test  | 1                    |  |   |   |

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| 67   | NCERT     | November | 12             | HERON'S FORMULA       | Introduction  | 1                    | This activity is useful in deriving formula for the area of a triangle and also in solving problems on mensuration. | coloured glazed paper, pair of scissor , gum/fevistick , ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_34e9b597c9654138812c6ef05e95d3db/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_34e9b597c9654138812c6ef05e95d3db/720p/mp4/file.mp4</a> |
| 68   |           |          |                |                       | Area of a Triangle  | 2                    |   |  |   |
| 69   |           |          |                |                       | Application of Heron's Formula in finding area of quadrilateral | 3                    |   |  |   |
| 70   |           |          |                |                       | Word Problems   | 2                    |   |  |   |
| 71   |           |          |                |                       | Extra Questions   | 1                    |   |  |   |
| 72   |           |          |                |                       | Introduction  | 1                    |   |  |   |
| 73   | NCERT     | November | 13             | SURFACE AREA & VOLUME | surface area and volume of Cuboid & Cube                        | 2                    | To form a cone from a sector of a circle and to find the formula for its curved surface area.                       | coloured glazed paper, pair of scissor , gum/fevistick , ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_16de74fa868c42398bdbde766fa50b11/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_16de74fa868c42398bdbde766fa50b11/720p/mp4/file.mp4</a> |
| 74   |           |          |                |                       | surface area and volume of Cylinder                             | 2                    |   |  |   |
| 75   | NCERT     | December | 13             | SURFACE AREA & VOLUME | surface area and volume of Cone                                 | 2                    | To form a cone from a sector of a circle and to find the formula for its curved surface area.                       | coloured glazed paper, pair of scissor , gum/fevistick , ruler, pencil, geometry box | <a href="https://video.wixstatic.com/video/f29914_16de74fa868c42398bdbde766fa50b11/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_16de74fa868c42398bdbde766fa50b11/720p/mp4/file.mp4</a> |
| 76   |           |          |                |                       | surface area and volume of sphere                               | 2                    |   |  |   |
| 77   |           |          |                |                       | Extra Questions   | 2                    |   |  |   |
| 78   |           |          |                |                       |   |                      |   |  |   |
| 79   |           |          |                |                       | Test  | 1                    |   |  |   |

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| 80   |           |         |                |              |                            |                      |   |  |   |
| 81   | NCERT     | January | 14             | STATISTICS   | Introduction               | 1                    | To draw histograms for classes of equal widths and varying widths | graph paper, geometry box, coloured paper, gum/ feviquick, ruler | <a href="https://video.wixstatic.com/video/f29914_b7ec318213d84b17a2fab179f2bd2167/720p/mp4/file.mp4">https://video.wixstatic.com/video/f29914_b7ec318213d84b17a2fab179f2bd2167/720p/mp4/file.mp4</a> |
| 82   |           |         |                |              | Mean of group data         | 2                    |   |  |   |
| 83   |           |         |                |              | Median of grouped data     | 2                    |   |  |   |
| 84   |           |         |                |              | Mode of group data         | 2                    |   |  |   |
| 85   |           |         |                |              | Cumulative frequency Graph | 2                    |   |  |   |
| 86   |           |         |                |              | Extra Questions            | 1                    |   |  |   |

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| 87   | NCERT     | January | 16             | Trigonometry | Trigonometric ratios                 | 1                    | no       |                   |            |
| 88   |           |         |                |              | Proof of their existence             | 2                    |          |                   |            |
| 89   |           |         |                |              | Value of trigonometric ratios        | 2                    |          |                   |            |
| 90   | NCERT     |         |                |              | Proof & application of identity      | 2                    |          |                   |            |
| 91   |           |         |                |              | Simple Questions Based on identities | 2                    |          |                   |            |
| 92   |           |         |                |              | Practice Questions                   | 3                    |          |                   |            |
| 93   |           |         |                |              | Test                                 | 1                    |          |                   |            |