

Month	April	May	June	July
<b>Concepts</b>	<b>Ch. 1</b> Real Numbers  <b>Ch.2</b> Polynomials	<b>Ch. 3</b> Pair of Linear equations in two variables	<b>Ch. 4</b> Quadratic Equations  <b>Ch. 5</b> Arithmetic Progression	<b>Ch. 6</b> Triangles
<b>Learning Outcomes</b>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Describe Fundamental Theorem of arithmetic.</li> <li>Explain the proofs of irrationality of <math>\sqrt{2}</math>, <math>\sqrt{3}</math>, <math>\sqrt{5}</math> etc.</li> <li>Recall the concept of Polynomials.</li> <li>Find Zeros of Polynomials.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Identify different Coordinate axis and plot points on them.</li> <li>Describe the conditions of consistency for linear equations.</li> <li>Identify the correct method for solving the linear equations.</li> <li>Solve linear equations with different methods.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Differentiate between a quadratic polynomial and a quadratic equation.</li> <li>Find the different methods to solve quadratic equations.</li> <li>Applications of the concept to solve everyday problems.</li> <li>Recognise an Arithmetic Progression.</li> <li>Find the given terms and sum of the given Arithmetic Progression.</li> <li>Solve a given application based question through real life situations.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Identify the difference between Congruency and Similarities of triangles.</li> <li>Apply Basic Proportionality theorem and its converse.</li> <li>Describe the criteria for Similarity of triangles.</li> </ul>
<b>Skills</b>	Logical and Analytical Thinking/Numeracy and Computational/Personal Development	Logical and Analytical Thinking/Numeracy and Computational/Personal Development	Logical and Analytical Thinking/Numeracy and Computational/Personal Development	Logical and Analytical Thinking/Spatial And Visual Understanding/Personal Development
<b>Activities</b>	<b>Competency-skill based activity/Experiential Learning:</b> Based on HCF and LCM.	<b>Competency-skill based activity/Experiential Learning:</b> Graph Paper  - Based on the conditions for consistency of a system of linear equations in two variables by graphical representation.	<b>Competency-skill based activity/ Experiential Learning:</b> Based on Factorization.	<b>Competency-skill based activity/Experiential Learning:</b> Based on the Arithmetic Progression and its sums.
<b>Art Integration</b>	History, English	English, Science	English, Science	English, Art
<b>Assessments</b>	<ul style="list-style-type: none"> <li>Periodic Tests</li> <li>Multiple Assessments</li> <li>Portfolio</li> <li>Student Enrichment Activities-practical work</li> </ul> <b>Main Book: NCERT</b>			

Month	August	September	October	November/December
<b>Concepts</b>	<b>Ch. 7</b> Coordinate Geometry  <b>Ch.8</b> Introduction to Trigonometry	<b>Ch.9</b> Applications of Trigonometry  <b>Ch.10</b> Circles	<b>Ch.11</b> Areas related to Circles	<b>Ch.12</b> Surface Area and Volume <b>Ch.13</b> Statistics <b>Ch.14</b> Probability
<b>Learning Outcomes</b>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Describe the concept of Coordinate geometry.</li> <li>Find the distance between two points using their coordinates.</li> <li>Use of section formula.</li> <li>Use Pythagoras theorem in a right angled triangle.</li> <li>Identify Trigonometry ratios and apply them.</li> <li>Use different identities to prove the given results.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Apply Trigonometry to find angle of elevation/ depression and in various fields such as Physics, Engineering, Navigation, Seismology and Art.</li> <li>Describe the difference between Secant and Tangents to the circle.</li> <li>Learn that only one tangent can pass through a point lying on the circle.</li> <li>Observe that tangent to any point of a circle is perpendicular to the radius through the point of contact and apply it.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Calculate the areas and perimeter of the Circle, area of a given segment or sector of the circle, the length of major and minor arc and the area of combination of plane figures.</li> </ul>	<b>Students will be able to:</b> <ul style="list-style-type: none"> <li>Identify the 3-D shapes combined to form an object.</li> <li>Determine Surface area of combination of different solids.</li> <li>Make formulas for Volume of a combination of solids.</li> <li>Convert one solid form to another.</li> <li>Solve the questions based on mean, median and mode of grouped data.</li> <li>Find mean by different methods.</li> <li>Differentiate between experimental and Theoretical Probability.</li> <li>Differentiate between equally likely and not equally likely outcomes.</li> <li>Describe Sure and impossible events.</li> <li>Solve the problems based on single events.</li> </ul>
<b>Skills</b>	Logical and Analytical Thinking/Spatial And Visual Understanding/Personal Development	Logical and Analytical Thinking/Spatial And Visual Understanding/Personal Development	Logical and Analytical Thinking/Spatial And Visual Understanding/Personal Development	Logical and Analytical Thinking/Numeracy and Computational/Spatial And Visual Understanding/Personal Development
<b>Activities</b>	<b>Competency-skill based activity/Experiential Learning:</b> Based on Proportionality theorem and Pythagoras theorem.	<b>Competency-skills based activity/Experiential Learning:</b> Based on Trigonometry.	<b>Competency-skills based activity/Experiential Learning:</b> Area of sector formed at the vertices of the triangle.	<b>Competency-skills based activity/Experiential Learning:</b> Based on Surface area and Volume of cylinder and cone.
<b>Art Integrated</b>	English, Art, Physics	English, Art, Physics	English, Art, Physics	English, Art, Physics
<b>Assessments</b>	<ul style="list-style-type: none"> <li><b>Periodic Tests</b></li> <li><b>Multiple Assessments</b></li> <li><b>Portfolio</b></li> <li><b>Student Enrichment Activities-practical work</b></li> </ul> <b>Main Book: NCERT</b>			