

**ACADEMIC PLANNER 2020 - 2021**

**Subject : Mathematics**

**Class - VII**

<b>DATE</b>	<b>TOPIC</b>	<b>ASSIGNMENTS / HOMEWORK</b>	<b>ACTIVITY / MODE OF ASSESSMENT</b>
<b>April</b> 1-15th April (8 days)	<b><u>Ch. 1- Integers</u></b> Basics of integers, Properties of Addition & Subtraction, Closure property, Commutative property, Associative property, Additive identity, Multiplication of integers, Division of integers	Ex. 1.1 to 1.4	To Complete 3x3 magic Square.
16- 30th April (13 days)	<b><u>Ch.2- Fractions and Decimals</u></b> Addition and subtraction of fractions, Multiplication of fractions, Division of fractions  Comparison of decimals, Multiplication & Division of decimal numbers.	Ex. 2.1 to 2.7	To multiply the given fractions/decimals geometrically.
<b>May</b> 1-15th May (12 days)	<b><u>Ch. 9- Rational Numbers</u></b> Concept, Rational numbers on number line, Standard form, Comparison of rational numbers rational numbers between two rational numbers, Operations on rational numbers	Ex 9.1 , 9.2	Online Assessment
<b>JULY</b> 1-15th July (12 days)	<b><u>Ch. 13- Exponents and Powers</u></b> Concept of Exponent, Laws of Exponents, Scientific Notation of numbers	Ex. 13.1 to 13.3	Online Assessment
16- 31st July (14 days)	<b><u>Ch. 8- Comparing Quantities</u></b> Ratio, Equivalent ratios, Percentage- Converting decimal to % and viceversa Converting fraction to % and vice versa Ratios to percents, Increase or Decrease as percent, profit or Loss as a percent, Simple Interest	Ex. 8.1 to 8.3	Online Assessment
<b>August</b> 1-15th Aug. (8 days)	<b><u>Ch. 5- Lines and Angles</u></b> Complementary and Supplementary angles, Adjacent angles, Linear pair, Vertically opposite angles, Intersecting lines, Transversal Angles made by a transversal, Transversal of parallel lines	Ex 5.1 , 5.2	To verify the equality of a pair of vertically opposite angles.
16 -31st Aug. (13 days)	<b><u>Ch. 4- Simple Equations</u></b> Concept of an equation, Converting statement into an equation Solving an equation- Balancing method & Transposing method, Word problems	Ex 4.1 to 4.4	To verify the relationship between angles made by transversal with parallel lines.
<b>September</b> 1-15th Sept. (12 days)	<b><u>Ch. 14- Symmetry</u></b> Concept, Symmetry in Regular Polygons, Line symmetry and Rotational symmetry	Ex. 14.1 to 14.3	Revision for Half Yearly
	<b><u>Ch. 15- Visualising Solid Shapes</u></b> Faces, Edges, Vertices of shapes, Nets for building 3D Shapes, Oblique and isometric sketches, Viewing Different sections of a solid	Ex. 15.1 to 15.4	
16-30th Sept. (13 days)	<b>Half Yearly Exam</b>		

<b>October</b> 1-15th Oct. (12 days)	<b><u>Ch. 6- Triangle and its properties</u></b> Altitudes and medians of a triangle, Exterior angle property, Angle sum property Special triangles- Equilateral & Isosceles, Inequality property, Pythagoras theorem	Ex 6.1 to 6.2	To verify Pythagoras Theoram using Squared Paper.
16 -31st Oct. (8 days)	<b><u>Ch. 6 - Triangles and its properties</u></b> Angle sum property Special triangles- Equilateral & Isosceles, Inequality property, Pythagoras theorem	Ex 6.3 to 6.5	Online Assessment

<b>November</b> 1-15th Nov. (9 days)	<b><u>Ch. 11- Perimeter and Area</u></b> Perimeter and area of square and rectangle, Area of parallelogram, area of triangle, circumference and Area of circle, Areas of rectangular paths, borders.	Ex 11.1 to 11.4	To verify angle sum property of a triangle.
16-30th Nov. (11 days)	<b><u>Ch. 12- Algebraic Expressions</u></b> Meaning and concept of an expression, Terms of an expression, Factors of a term, Coefficient, Like & Unlike terms, Monomials, Binomials, Trinomials Addition & Subtraction of algebraic expression, Finding the value of an expression, Number patterns, Pattern in geometry	Ex 12.1 to 12.3	To verify the exterior angle property of a triangle.

<b>December</b> 1-15th December (12 days)	<b><u>Ch. 7 Congruence of Triangles</u></b> Congruence of plane figures, line segment, angles, Congruence of triangles - concepts Congruence conditions - SSS, SAS, ASA, RHS	Ex 7.1 - 7.2	To determine the area of a closed figure using a dotted paper.
16-31st December (13 days)	<b><u>Ch. 10- Practical Geometry</u></b> Construction of Parallel lines, Construction of Triangles, SSS, SAS, ASA & RHS triangle construction	Ex 10.1 to 10.5	Online Assessment

<b>1-15 January</b> (3 days)	<b><u>Ch. 3- Data Handling</u></b> Arithmetic mean		
16 -31st January (12 days)	Range, Median, Mode Arithmetic mean, Range, Median, Mode Bar Graph, double bar graph, Chances and Probability	Ex. 3.1 to 3.4	Online Assessment

<b>February</b> 1-15th Feb (12 days)	<b>Revision for Annual Exam</b>		
16-28th Feb (11 days)	<b>Annual Exam</b>		

<b>TERMWISE SYLLABUS</b>			
<b>Unit Test - I</b>			
<b>Online Assessment + Written Test of Chapters 1, 2, 9</b>			
<b>Half Yearly Exam</b>			
<b>Ch. 1, 2, 4, 5, 8, 9, 13</b>			
<b>Unit Test - II</b>			
<b>Online Assessment + Written Test of Chapters 6, 14, 15</b>			
<b>Annual Examination</b>			
<b>Ch. 3, 4, 6, 7, 10, 11, 12, 13, 14</b>			

