

**ACADEMIC PLANNER 2026-27**

**Subject : Mathematics**

**Class - VII**

DATE	TOPIC	HW	ACTIVITY/INTERDISCIPLINARY	LEARNING OUTCOMES
<p><b>April</b> <b>1-15th April</b> <b>(11 days)</b></p>	<p><b><u>BRIDGE COURSE</u></b> <b><u>Unit 1 - Large Numbers Around Us</u></b> How Large Is One Lakh? Understanding Large Numbers Land of Tens How Large is One Crore? Exact and Approximate Values Populations of Cities Patterns in Products</p>	<p>WS 1</p>	<p>1. Explore patterns in multiplication (e.g., 11, 111, 1111). 2. Create own pattern puzzles.</p>	<p>Understand large numbers in daily life Read and write numbers in Indian and International systems Compare, estimate and round off large numbers Apply large numbers to real-world situations</p>
<p><b>16- 30th</b> <b>April</b> <b>(13 days)</b> <b>May</b> <b>(1-15th</b> <b>May)</b> <b>(6 days)</b></p>	<p><b><u>Unit 2 - Arithmetic Expressions</u></b> Simple Expressions Reading and Evaluating Complex Expressions</p>	<p>WS 2</p>	<p>Fun Zone Make the same value</p>	<p>Understand what arithmetic expressions are Learn how to find the value of an expression Compare two expressions Read and evaluate expressions correctly using brackets Identify terms and simplify expressions Apply arithmetic expressions to real-life situations</p>
<p><b>July 1- 15th</b> <b>(12 days)</b></p>	<p><b><u>Unit 8 - Working With Fractions</u></b> Types of Fractions Comparing and Ordering Fractions Addition and Subtraction of Fractions Multiplication of Fractions Division of Fractions</p>	<p>WS 8</p>	<p>Collect and draw old coins and write their values in paise and rupees. Fun Zone</p>	<p>Learn about fraction and its types Compare and order fractions Learn about addition and subtraction of fractions Learn multiplication of fractions Learn division of fractions</p>

<p><b>16- 31st July</b> <b>(14 days)</b></p>	<p><b><u>Unit 3 - A Peek Beyond the Point</u></b> Understanding Decimal Numbers A Tenth Part A Hundredth Part Place Value in the Decimal System Locating and Comparing Decimals Mystery of Extra Zeros Addition and Subtraction of Decimals Multiplication of Decimals Division of Decimals Units of Measurement Decimal Dangers and Mishaps <b><u>Unit 4 - Another Peek Beyond the Point(Part II)</u></b> A Quick Recap of Decimals Decimal Multiplication Decimal Division Getting the best value</p>	<p>WS 3</p>	<p>1. Decimal Grid Shading 2. Pencil Measurement Activity.</p>	<p>Understand decimal numbers Identify decimal place values Compare decimal numbers Add decimal numbers Subtract decimal numbers Multiply decimal numbers Divide decimal numbers Apply decimals in real life</p>
<p><b>August</b> <b>1-15th Aug.</b> <b>(11 days)</b></p>	<p><b><u>Unit 5- Parallel and Intersecting Lines</u></b> Intersecting Lines Perpendicular Lines Parallel Lines Transversals Pairs of Angles Formed by a Transversal Angles Formed by a Transversal with Parallel Lines</p>	<p>WS 5</p>	<p>1. Verify angles and their equality by paper cuttings.</p>	<p>Recognise intersecting and parallel lines Identify angles formed by intersecting lines Explore properties of angle pairs Define a transversal line Understand angles formed by transversals Draw parallel and perpendicular lines</p>
<p><b>16 -31st Aug.</b> <b>(11 days)</b></p>	<p><b><u>Unit 1 - Geometric Twins(Part II)</u></b> Geometric Twins Congruence of Triangles Angles of Isosceles and Equilateral Triangles</p>		<p>Paper Cutting Activity</p>	<p>Define congruence of figures Understand corresponding parts Use the SSS congruence criterion Use the ASA and AAS criteria Use the RHS criterion for right triangles Apply congruence to triangle properties Use the SAS congruence criterion</p>

16 -31st Aug.  (11 days)	<b><u>Unit 6 - Constructions and Tilings</u></b> <b><u>(Part II)</u></b> Fundamental Geometric Constructions Tilings			Bisect line segments and angles Construct special geometric angles Draw parallel lines accurately Understand tiling and tessellation Identify polygons that can tile
September 1-15th Sept.  (11 days)	REVISION FOR HALF YEARLY EXAMS			
16-30th Sept. (13 days)	HALF YEARLY EXAMS			
October 1-15th Oct. (11 days)	<b><u>Unit 4 - Expressions Using Letter- Numbers</u></b> Algebraic Expressions Degree of an Algebraic Expression Revisiting Arithmetic Expressions Why Do We Omit the Multiplication Symbol?	WS 4	1. Pattern Formula Builder	Understand use of letters in maths Form simple algebraic expressions Identify and extend pattern
16 -31st Oct. (9days)	<b><u>Unit 4 - Expressions Using Letter- Numbers</u></b> Simplification of Algebraic Expressions Addition and Subtraction of Algebraic Expressions Pick Patterns and Reveal Relationships			Simplify expressions step by step Apply expressions to real-life problems
November 1-15th Nov. (9 days)	<b><u>Unit 7 - Finding the Unknown</u></b> <b><u>(Part II)</u></b> Find the unknowns ,equations			Define equations and expressions Formulate algebraic equations Solve equations by balancing Transpose terms effectively Solve real-life word problems

<p><b>16-30th Nov. (12 days)</b></p>	<p><b><u>Unit 5 - Connecting the Dots(Part II)</u></b> Of Questions and Statements Representative Values, Visualising Data Dot Plot</p>			<p>Define data and statistics Formulate statistical questions Calculate the Arithmetic Mean Find the Median of a dataset Understand the effect of outliers Read and interpret column graphs Construct double column graphs</p>
	<p><b><u>Unit 7 - A Tale of Three Intersecting Lines</u></b> Introduction Interior and Exterior of a Triangle Classification of Triangles Median of a Triangle Altitude of a Triangle Exterior Angle of a Triangle</p>	<p>WS 7</p>	<p>Verification of Angle Sum Property , Pythagoras theorem , Exterior Angle Property.</p>	<p>Define and locate key elements of a triangle Understand triangle and its properties</p>
<p><b>December 1-15th December (12 days)</b></p>	<p><b><u>Unit 7 - A Tale of Three Intersecting Lines</u></b> Angle Sum Property of a Triangle Triangle Inequality Right-Angled Triangle and Pythagoras Theorem Constructing Triangles</p>			<p>Learn about Pythagoras Theorem Learn to construct triangles if all three sides of a triangle are given (SSS criterion) Draw triangles under SAS criterion Draw triangles under ASA criterion Draw right-angled triangles construction</p>
<p><b>16-31st December (13 days)</b></p>	<p><b><u>Unit 2 - Operations with Integers(Part II)</u></b> A Quick Recap of Integers Using Counters (The Token Model) Multiplication of Integers Division of Integers</p>		<p>Pick the pattern.</p>	<p>Recall integer operations Multiply integers with signs Divide integers with signs Learn properties of integers Apply integers in daily life</p>

<b>January 1 -31st January (17 days)</b>	<u><b>Unit 3 - Finding Common Ground(Part II)</b></u> The Greatest of All Least, but not Last Patterns, Properties, and a Pretty Procedure		Fun Zone	Define factors and multiples Understand HCF (Highest Common Factor) Find HCF and LCM by prime factorisation Apply HCF and LCM to word problems Understand LCM (Lowest Common Multiple)
<b>February (1 to 15) (12 days)</b>	REVISION FOR ANNUAL EXAMS			
<b>16-28th Feb (12 days)</b>	ANNUAL EXAMS			

<b>TERMWISE SYLLABUS</b>		GK
<b>UNIT TEST - 1</b>	<b>CH -1,2,8</b>	<b>CH- 16,17</b>
<b>HALF YEARLY EXAMINATION</b>	<b>CH - 1,3,5,8(Part 1) CH-1,4(Part 2)</b>	<b>CH- 18,19,20,21</b>
<b>UNIT TEST - 2</b>	<b>CH - 4(Part 1) CH - 5,7(Part 2)</b>	<b>CH-22,23,24</b>
<b>ANNUAL EXAMINATION</b>	<b>CH - 4,5,7,8(Part 1) Ch- 2,3,5,7 (Part 2)</b>	<b>CH- 25,50,51,52</b>

Note: UNIT 6 (Part1) , UNIT 6 (Part2) will be assessed through activity