INFANT JESUS CONVENT SCHOOL
ANNUAL PLAN 2024-2025
MATHEMATICS
CLASS: VI

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
APRIL No of Days: 18	**KNOWING OUR NUMBERS** • Comparing numbers • Formation of numbers with given digits • Revisiting place values • Reading and writing large numbers in Indian and International system • Application of large numbers in statement questions.	Students will be able to: • Compare large numbers. • Form numbers according to the conditions given. • Solve numbers by changing the place values. • Name large numbers • Apply knowledge to solve statements.	**KNOWLEDGE:** • Write numbers in ascending/descending order. • Write names in Indian/International system. • Brainstorming by comparing large numbers. **SKILLS:** • Reasoning Skills • Writing Skills • Critical Thinking **APPLICATION:** • Name large numbers. • Expand brackets to solve. **UNDERSTANDING:** • Calculate using estimated value.	• Logical-mathematical • Interpersonal • Intrapersonal	Students will be able to: • Evaluate large numbers. • Construct different numbers. • Practice estimation to solve daily life calculations. • Compute day-to-day life problems related to large numbers

			• Compare large numbers.		
MAY No of Days: 14	**WHOLE NUMBERS :** • Predecessor and successor • Whole number on number line. • Additive identity	Students will be able to: • Evaluate predecessor and successor • Locate numbers on number line • Apply knowledge to solve daily life situations related to whole numbers.	**KNOWLEDGE:** • List the predecessor of the given number. • Locate the number on number line. • Organize the given numbers by rearrangement of numbers. **SKILLS:** • Reasoning Skills • Observational skills • Critical Thinking **APPLICATION:** • Add/subtract/multiply the given number on number line. • Construct a pattern to solve the problem. **UNDERSTANDING:** • Observe arrangement to be used in problems	• Logical-mathematical • Interpersonal Intrapersonal	Students will be able to: • Observe different patterns of numbers. • Explain numbers on number line

	REVISION: PT-1				
CONDUCTION OF PT-1 ASSESSMENT(Third Week Of May)					
JULY No of Days: 27	**PLAYING WITH NUMBERS:** • Factors and multiples • Prime and composite numbers • Divisibility rules • Prime factorization • HCF and LCM **BASIC GEOMATRICAL IDEAS** • Definition of point, line segment, a line, intersecting line	Students will be able to: • Know about factors and multiples • Identify prime and composite numbers. • Utilize divisibility rules to divide. • Construct factor tree and do prime factorization • Compute HCF and LCM • Define point, line segment, a line, intersecting line parallel lines, and a ray	**KNOWLEDGE:** • Write the factors and multiples of different numbers. • List numbers from 1 to 100 cross all factors and multiples. • Draw a factor tree of two different numbers and look for common numbers. • List uses of point. • Draw a line and line segment and observe the difference. • Identify different angles. **SKILLS:** • Observational Skills • Analytical Skills • Critical Thinking **APPLICATION:**	• Logical-mathematical • Interpersonal • Intrapersonal	Students will be able to: • Recognize prime and composite numbers. • Express the numbers as product of the factors • Explain HCF and LCM • Differentiate between line and line segment. • Observe different angles. • Identify sides, vertices and diagonals

	parallel lines, and a ray • Curves and polygons. • Making and naming angles.	• Draw curves and polygons. • Identify different types of angles and measure it.	• Divide using divisibility rule. • Interpret statement questions • Illustrate composite and prime numbers • Observe common factors and multiples. • Distinguish prime and composite. • Differentiate LCM and HCF • Label points. • Construct a polygon. **UNDERSTANDING:** • Observe common factors and multiples. • Distinguish prime and composite. • Differentiate LCM and HCF • Name the line and line segments in the figure. • Observe sides , vertices and		of a polygon.

			diagonals a polygon • Identify the triangles including a particular angle.		
AUGUST No of Days: 23	**INTEGERS:** • Definition of integers • Representation on number line • Order of integers • Addition and subtraction of integers. **FRACTIONS:** • Definition of fraction • Represent fraction on number line • Proper , improper and mixed fraction. • Simplest form • Equivalent fraction • Like and unlike fraction • Comparison of fractions • Addition and subtraction of fraction	Students will be able to: • Position negative and positive numbers on number line. • Place integers in specific order • Add and subtract integers. • Locate fractions on number line. • Differentiate between proper and improper fractions. • Reduce to simplest form. • Obtain equivalent fraction. • Observe like and unlike fractions	**KNOWLEDGE:** • Draw number line and mark negative and positive numbers. • Place the numbers in increasing/decreasing order • Add the given integers using number line • Locate fraction on number line. • Convert improper to mixed fraction. • Add /subtract given number. **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills.	• Logical-mathematical • Interpersonal • Intrapersonal	Students will be able to: • Preform addition and subtraction using negative and positive signs. • Place the numbers in order on number line. • Add and subtract fractions • Compare fractions. • Locate fractions on number line.

		• Add and subtract fractions using LCM	**APPLICATION:** • Solve addition and subtraction of numbers with different signs. • Determine part of a number • Locate on number line • Add/subtract fractions **UNDERSTANDING:** • Locate positive and negative numbers on number line. • Mention the correct sign for the situation negative/positive. • Observe part of a whole • Utilize LCM concept to add and subtract fraction. • Comparison of fractions		
SEPTEMBER No of Days: 05	**REVISION:TERM-1**				
CONDUCTION OF TERM-1 ASSESSMENT(Second Week of September)					

OCTOBER No of Days: 22	**UNERSTANDING ELEMENTARY SHAPES:** • Measuring line segments • Angles right and straight, acute ,obtuse and reflex. • Naming the triangles • Quadrilaterals • Polygons • Three dimensional shapes. **DECIMALS:** • Tenths , hundredths and thousandths • Comparing decimals • Addition and subtraction of decimals	Students will be able to: • Measure the line segments. • Observe the angles • Draw the triangle and name it • Make the quadrilateral and name them • Name the polygon according to number of sides • Understand the parts of a whole. • Compare decimals • Represent units of money, length and weight.	**KNOWLEDGE:** • Write the numbers with numerator and denominator. • Compare the numbers. • Add and subtract the numbers. **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking Computational skills. **APPLICATION:** • Draw different quadrilaterls and polygons • Solve decimal numbers • Interpret statement questions . • Illustrate in place value table. • Solve addition and subtraction of	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Measure the angles • Identify triangles • Name the the quadrilaterals • Identify the polygons. • Write decimal numbers • Convert whole numbers to decimals • Place the decimals in place value table • Solve statement problems.

			numbers with decimals. • Determine part of a number **UNDERSTANDING:** • Observe different shapes • Observe place values of decimal numbers • Compare decimal numbers. • Add and subtract decimals		
NOVEMBER No of Days: 23	**DATA HANDLING:** • Organizing and tabulating data • Pictograph **MENSURATION :**	Students will be able to: • Record data in tabular form. • Draw and interpret pictograph • Calculate area and perimeter of	**KNOWLEDGE:** • Indicate frequency using tally marks. • Interpret pictograph • Calculate perimeter of the desk	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Record the data. • Calculate area and perimeter

	• Perimeter • Area • Perimeter of regular shapes • Area of figure using a squared paper	objects in the surroundings	• Find area perimeter of the floor **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills. **APPLICATION:** • Observe and analyses the pictograph. • Find area and perimeter of the objects and floors of the room **UNDERSTANDING:** • Arrange the data in tally table • Draw and interpret pictograph. • Calculating area and perimeter of given figure.		

	REVISION: PT-2				
CONDUCTION OF PT-2 ASSESSMENT(Fourth Week Of November)					
DECEMBER No of Days: 11	**ALGEBRA:** • Patterns • Idea of variables • Expressions with variables	Students will be able to: • Convert statements into variables. • Express numbers in expression	**KNOWLEDGE:** • Write the numbers of match sticks observed. • Write the formula for area of square and rectangle using variable. • Identify the variable. **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills. **APPLICATION:** • Convert statements to equations **UNDERSTANDING:**	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Write the numbers in variables • Make the expressions

			• Observe the pattern. • Use of variables • Identifying expressions with variables		
JANUARY No of Days: 21	**RATIO AND PROPORTION:** • Ratio • Comparison of ratios • Equivalent ratios • Proportions • Unitary method	Students will be able to: • Compare ratios • Convert to simplest forms • Make equivalent ratios • Find the proportions • Use unitary method	**KNOWLEDGE:** • Find the simplest form. • Compare the ratios • Identify the equivalent ratios • Check the proportions. **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills. **APPLICATION:** • Compare the quantity of same type . • Observing same ratios in different situations	• Logical-mathematical intelligence • Intrapersonal • Computational intelligence	Students will be able to: • Understand about ratios. • Calculate equivalent ratios • Identify equivalent ratios • Observe proportion • Utilize unitary method

			• Converting in lowest form • Utilization of unitary method in daily life **UNDERSTANDING :** • Ratios of same type. • Calculating equivalent fractions • Solving word problems. • Observe proportions.		
FEBRUARY No of Days: 22	**SYMMETRY:** • Symmetrical figures • Lines of symmetry horizontal and vertical.	Students will be able to: • Observe symmetrical figures	**KNOWLEDGE:** • Draw a line symmetry for alphabets.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Observe symmetrical objects

	• Reflection and symmetry	• Demonstrate lines of symmetry • Identify various objects with different lines of symmetry • Know about reflections • Calculate area and perimeter of objects in the surroundings	• Sketch symmetrical object • Observe reflection **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • **APPLICATION:** • Identify symmetrical objects. • Observe multiple lines of symmetry • Illustrate reflection of a figure **UNDERSTANDING** • Identify symmetrical objects • Observe multiple lines of symmetry • Demonstrate reflection of objects		• Identify lines of symmetry • Demonstrate reflections of objects
	REVISION:TERM-2				
MARCH	**CONDUCTION OF TERM-2 ASSESSMENT**				