INFANT JESUS CONVENT SCHOOL
ANNUAL PLAN –(2023-24)
MATHEMATICSCLASS: VI

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
APRIL No of Days: 17	**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. • Estimation	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. • Estimate numbers according to the place value and using general rule.	**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. • Compute using estimation. • 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: 12	**WHOLE NUMBERS :** • Predecessor and successor • Whole number on number line • Properties of whole numbers. • Additive identity	Students will be able to: • Evaluate predecessor and successor • Locate numbers on number line • Understand properties closure, distributivity and associativity • 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. • Observe the property used in the given question. • Organize the given numbers using appropriate property. **SKILLS:** • Reasoning Skills • Observational skills • Critical Thinking **APPLICATION:** • Add/subtract/multiply the given number on number line. • Construct a pattern to solve the problem. • Identify the property for easy	• Logical-mathematical • Interpersonal Intrapersonal	Students will be able to: • Express the properties of whole numbers. • Observe different patterns of numbers. • Explain numbers on number line

			calculations. **UNDERSTANDING:** • Observe property used in problems Identify the additive		
	REVISION: PT-1				
CONDUCTION OF PT-1 ASSESSMENT(Third Week Of May)					
JULY No of Days: 21	**PLAYING WITH NUMBERS:** • Factors and multiples • Prime and composite numbers • Divisibility rules • Prime factorization • HCF and LCM	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	**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:**	• 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

	BASIC GEOMATRICAL IDEAS • Definition of point, line segment, a line, intersecting line parallel lines, and a ray • Curves and polygons. • Making and naming angles. • Triangles • Quadrilateral • Circle and its parts.	• Define point, line segment, a line, intersecting line parallel lines, and a ray • Draw curves and polygons. • Identify different types of angles and measure it. • Name the triangles • Draw and name the quadrilaterals • Know about circle and its parts.	• Observational Skills • Analytical Skills • Critical Thinking **APPLICATION:** • 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. • Classify the parts of a circle. **UNDERSTANDING:** • Observe common factors and multiples. • Distinguish prime and composite.		different angles. • Identify sides, vertices and diagonals of a polygon. • Draw a circle showing all parts of a circle.

			• Differentiate LCM and HCF • Name the line and line segments in the figure. • Observe sides , vertices and diagonals a polygon • Identify the triangles including a particular angle. • Locate the centre and different parts of a circle.		
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	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	**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	• 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

	mixed fraction. • Simplest form • Equivalent fraction • Like and unlike fraction • Comparison of fractions • Addition and subtraction of fraction	proper and improper fractions. • Reduce to simplest form. • Obtain equivalent fraction. • Observe like and unlike fractions • Add and subtract fractions using LCM	to mixed fraction. • Add /subtract given number. **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills. **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		subtract fractions • Compare fractions. • Locate fractions on number line.

			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	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	**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.	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Measure the angles • Identify triangles • Name the the quadrilaterals • Identify the polygons • Observe the 3D figures • Write decimal numbers • Convert

	• Comparing decimals • Addition and subtraction of decimals	• Observe 3-D figures. • Understand the parts of a whole. • Compare decimals • Represent units of money, length and weight.	**APPLICATION:** • Draw different quadrilaterals and polygons • Solve decimal numbers • Interpret statement questions . • Illustrate in place value table. • Solve addition and subtraction of 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		whole numbers to decimals • Place the decimals in place value table • Solve statement problems.

NOVEMBER No of Days: 22	**DATA HANDLING:** • Organizing and tabulating data • Pictograph • Bar graph **MENSURATION :** • Perimeter • Area • Perimeter of regular shapes • Area of figure using a squared paper	Students will be able to: • Record data in tabular form. • Draw and interpret pictograph • Analyze and draw the bar graphs using appropriate scale • Calculate area and perimeter of objects in the surrounding ds	**KNOWLEDGE:** • Indicate frequency using tally marks. • Interpret pictograph • Calculate perimeter of the desk • Find area perimeter of the floor **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • Computational skills. **APPLICATION:** • Observe and analyses the pictograph and bar graph. • Find area and perimeter of the objects and floors of the room	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Record the data. • Translate data to pictograph and bar graph. • Interpret the information using pictograph and bar graph. • Calculate area and perimeter

			UNDERSTANDING: • Arrange the data in tally table • Draw and interpret pictograph and bar graph • Calculating area and perimeter of given figure.		
	REVISION: PT-2				
CONDUCTION OF PT-2 ASSESSMENT(Fourth Week Of November)					
DECEMBER No of Days: 12	**ALGEBRA:** • Patterns • Idea of variables • Expressions with variables • Practical use of expressions and Equation	Students will be able to: • Convert statements into variables. • Express numbers in expression • Find value of variables	**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	• Logical-mathematical • Interpersonal intelligence • Intrapersonal intelligence	Students will be able to: • Write the numbers in variables • Make the expressions • Solve the equation

			• Aesthetic skills • Critical Thinking • Computational skills. **APPLICATION:** • Solve using variables • Convert statements to equations • Finding value of unknown quantity **UNDERSTANDING:** • Observe the pattern. • Use of variables • Identifying expressions with variables		
JANUARY No of Days: 18	**RATIO AND PROPORTION:** • Ratio • Comparison of ratios • Equivalent ratios • Proportions	Students will be able to: • Compare ratios • Convert to simplest	**KNOWLEDGE:** • Find the simplest form. • Compare the ratios • Identify the equivalent ratios	• Logical-mathematical intelligence • Intrapersonal • Computational intelligence	Students will be able to: • Understand about ratios. • Calculate

	• Unitary method	forms • Make equivalent ratios • Find the proportions • Use unitary method	• 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 • Converting in lowest form • Utilization of unitary method in daily life **UNDERSTANDING:** • Ratios of same type. • Calculating equivalent fractions • Solving word		equivalent ratios • Identify equivalent ratios • Observe proportion • Utilize unitary method

			problems. • Observe proportions.		
FEBRUARY No of Days: 23	**SYMMETRY:** • Symmetrical figures • Lines of symmetry horizontal and vertical. • Reflection and symmetry	Students will be able to: • Observe symmetrical figures • Demonstrate lines of symmetry • Identify various objects with different lines of symmetry • Know about reflections • Calculate area and perimeter of objects in the surroundings	**KNOWLEDGE:** • Draw a line symmetry for alphabets. • Sketch symmetrical object • Observe reflection **SKILLS:** • Reasoning Skills • Aesthetic skills • Critical Thinking • **APPLICATION:** • Identify symmetrical objects. • Observe multiple lines of symmetry • Illustrate reflection	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Observe symmetrical objects • Identify lines of symmetry • Demonstrate reflections of objects

			of a figure **UNDERSTANDING** • Identify symmetrical objects • Observe multiple lines of symmetry • Demonstrate reflection of objects		
	REVISION:TERM-2				
MARCH	**CONDUCTION OF TERM-2 ASSESSMENT**				