INFANT JESUS CONVENT SCHOOL
ANNUAL PLAN
MATHS
CLASS: V

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOMES
APRIL No of Days: 18	LARGE NUMBERS • Indian and International system of numeration • Place value and expanded form • Ascending and descending order • Successor and Predecessor of a number	Students will be able to: • Express the numbers into numerical form. • Identify place value and face value. • Compare the numbers • Apply their knowledge in real life.	**KNOWLEDGE:** • Recall the number names up to thousand. • Relate the place value and face value. • Arrange the numbers into ascending and descending order. **SKILLS:** • Problem solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Practice writing the different number names. • Give examples of successor and predecessor of a number. • Express the expanded form of large numbers. **UNDERSTANDING:**	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Read and write the numbers in Indian and International place value chart. • Tell the place value of each digit. • Arrange numbers into ascending and descending order. • Express the successor and predecessor of a number.

			• List the numbers in ascending and descending order. • Tell the place value of a number.		
MAY No of Days: 14	OPERATION ON NUMBERS • Addition and subtraction of large numbers • Word problems related to addition and subtraction • Problems involving both addition and subtraction.	Students will be able to: • Understand the operation on large numbers. • Apply properties of addition and subtraction to solve word problems appropriately. • Estimating the sum and difference.	**KNOWLEDGE:** • Know the relation between addition and subtraction. • Read and solve the word problems. • Identify the problems involving both addition and subtraction. **SKILLS** • Problem solving skills • Counting skills • Critical thinking **APPLICATION:** • Identifying different operations on numbers. • Applying addition and subtraction in solving different word problems. **UNDERSTANDING:** • Solve sums of addition and subtraction.	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Add and subtract the large numbers. • Identify the addition and subtraction results. • Use addition and subtraction in real life.
	REVISION: PT – 1				
CONDUCTION OF PT-1 ASSESSMENT (Third Week of May)					

JULY No of Days: 27	OPERATION ON NUMBERS • Multiplication of 3 and 4 digit numbers. • Word problems related to multiplication. • Division of large numbers by 3 and 4 digit numbers. H.C.F. AND L.C.M. • Divisibility by different numbers. • Highest common factor and lowest common factor. • Relation between H.C.F, L.C.M and the numbers. • Word problems on H.C.F and L.C.M. FRACTIONAL NUMBERS • Addition and subtraction of fractions and word problems. • Multiplication and properties of multiplication of	Students will be able to: • Understand the relationship between addition and multiplication. • Solve sums of multiplication independently. • Determine that division is dividing objects into equal groups. • Know the relation among multiplication and division. • Check divisibility of different numbers. • Calculate H.C.F and L.C.M by long division method. • Apply divisibility rules appropriately. • To differentiate and compare different fractions. • Express the properties of multiplication and division of fractional numbers.	**KNOWLEDGE:** • Recall the properties of multiplication and division. • Know the short method of multiplication and division of a number. • Tell the facts about factors and multiples. • Identify the relation between H.C.F and L.C.M of a number. • Brainstorming about the usage of decimal fractions. **SKILLS:** • Writing Skills • Critical Thinking • Counting skills **APPLICATION:** • Analyse the word problems carefully • Calculate and solve division and multiplication of fractional numbers. • Practise the word problems. • Practice H.C.F. and L.C.M **UNDERSTANDING:** • Identifying various mathematical operations.	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Solve sums and word problems of multiplication and division independently. • Recognize thet division is the opposite of multiplication. • Identify and use divisibility rules. • Record H.C.F and L.C.M. of different numbers. • Identify and use different properties of multiplication and division for fractional numbers.

	fractional numbers. • Division of a fractional number by a fractional number. • Fractional part as a whole number.		• Applying different mathematical operations to solve word problems. • Solve sums based on H.C.F and L.C.M.		
AUGUST No of Days: 23	ROUNDING NUMBERS • Round off numbers to the nearest tens, hundreds, thousands place. SIMPLE INTEREST • Principal, Interest and Amount • Calculation of Simple interest by formula. SYMMETRY • Line of symmetry • Rotational symmetry • Symmetry in 2D and 3D shapes • Perspective	Students will be able to: • Evaluate rounding off numbers to nearest places. • Know where to apply estimation • Define principal, interest and amount. • Use formula to calculate simple interest. • Explain line of symmetry. • Determine the order of rotational symmetry. • Relate 2D shapes and symmetry. • Draw 3D objects in 2D. • Describe nets.	**KNOWLEDGE:** • List the rounding off numbers. • Define and use simple interest terminology. • List the examples of different orders of rotational symmetry. • Compare symmetry in 2D and 3D shapes. • Brainstorming about the usage of symmetry. • Define nets. **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Apply rounding off numbers in real life. • Applying formula to calculate simple interest in various cases. Construct different 2D and 3D shapes.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Evaluate rounding off numbers to nearest ones and tens places. • Calculate simple interest. • Draw line of symmetry. • Give examples of different orders of symmetry. • Recall symmetry of 2D and 3D shapes. • Match the nets with appropriate solids.

	• Drawing 3d objects in 2D • Nets		• Apply knowledge of symmetry in real life. • Give examples of symmetry. **UNDERSTANDING:** • Summarize the rounding off numbers. • Evaluate simple interest. • Draw 2D and 3D shapes. • Identifies 2D shapes from the immediate environment. • Demonstrate the relation between 3D objects and nets.		
SEPTEMBER No of Days: 05	AREA • Concept of Area of rectangle and square.	Students will be able to: • Calculate area of rectangle and square using formula.	**KNOWLEDGE:** • Explain the formula to calculate area of rectangle and square. **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Use formula to calculate area of rectangular and square shaped objects. **UNDERSTANDING:** • Recognize difference between area of a rectangle and a square.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Identify and use divisibility rules. • Calculate area of a rectangle and a square.

	REVISION: TERM – 1				
CONDUCTION OF TERM-1 ASSESSMENT (Second Week of September)					
OCTOBER No. of Days: 22	SIMPLIFICATION OF NUMERICAL EXPRESSIONS • DMAS • BODMAS PERCENTAGE • Concept of percentage • Changing a percentage into a fraction and a decimal • Changing a fraction and decimal into a percentage • Changing a whole number into percentage • Money and metric measures as percentage • Problems on percentage BASIC GEOMETRICAL CONCEPTS • Point, line segment, line and ray • Measurement and drawing of line segment	Students will be able to: • Know the simplification of numerical expressions. • Understand the concept of percentage. • Solve sums of percentage independently. • Calculate percentage by using formula. • Express money and metric measures as percentage. • Use concept of percentage in real life. • Understand the basic terms of geometry • Draw line segments, angles and triangles	**KNOWLEDGE:** • Tell the facts about simplification of numerical expressions. • Recall the concept of percentage. • Tell the conversion of percentage into a fraction and a decimal. • Tell the facts about triangles and circles. • Identify the relation between special pairs of angles. **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Analyse the word problems carefully • Applying formula to calculate percentage with the help of formula. • Construct the line segment. **UNDERSTANDING:** • Employ concept of percentage in real life.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Simplify the numerical expressions. • Calculate discounts using formula of percentage • Develop relationships among special pairs of angles. • Classify triangles based on the sides and angles

	• Angles and its types • Triangles and its properties • Circles and its properties		• Summarize the properties of angles, triangles and circles. • Differentiate between line segment, line and ray.		
NOVEMBER No. of Days: 23	NUMBER PATTERNS • Square numbers and their sequence • Triangular numbers • Number surprises VOLUME • Concept of volume • Indirect method of determining volume. AVERAGE • Concept of Average • Applications of Average PROFIT AND LOSS • Cost price,selling price,profit and loss • Determining selling price and cost price	Students will be able to: • Observe and understand the pattern. • Recognize the basic unit which generates the pattern. • Determine volume of cube and cuboid by using formula • Calculate cost price and selling price. • Apply formula to calculate profit and loss appropriately	**KNOWLEDGE:** • Identify the number pattern. • Define average. • Apply concept of average in real life. • Evaluate average • List the formula to calculate profit and loss **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Construct the pattern. • Use formula to calculate volume • List the applications of average • Apply concept of profit and loss in real life **UNDERSTANDING:** • Observe the pattern and find the solution. • Complete the given pattern	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Recognize the pattern. • Calculate volume of a cube and a cuboid. • Tell the average of the numbers. • Apply the knowledge of profit and loss in real life situations

	• Profit and loss percentage		• Recognize the formula of profit percent and loss percent.		
	REVISION: TERM – 2				
CONDUCTION OF PT-2 ASSESSMENT (Fourth Week Of November)					
DECEMBER No of Days: 11	DECIMAL FRACTIONS • Types of decimals • Conversion of decimal fractions • Multiplication and division of decimals	Students will be able to: • Understand the different types of decimals. • To differentiate and compare different decimal fractions.	**KNOWLEDGE:** • Brainstorming about the usage of decimal fractions. • Arranging the decimal fractions in ascending and descending order **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Give examples of decimal fractions. • Apply the knowledge in real life situations **UNDERSTANDING:** • Express various decimal fractions • Learn to multiply and divide decimal fractions	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Read and write the decimal fractions. • Compare the decimal fractions to find the largest and smallest • Convert the numbers from fraction to decimal form and vice versa.
JANUARY No of Days: 21	THE METRIC SYSTEM • Metric system • Conversions	Students will be able to: • Convert larger units to smaller units and vice versa.	**KNOWLEDGE:** • Tell the basic metric measures. • Brainstorming about the usage of metric system.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Relates different commonly used larger and smaller

	• Addition, subtraction of metric system • Multiplication and division of metric measures	• Record multiplication and division of metric measures.	• Learn that the value of units increases by 10 from the smaller to bigger unit **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Practice conversion sums. • Apply knowledge of metric system in real life. • Convert the units from one form to another **UNDERSTANDING:** • Explain addition and subtraction of metric system. • Learn to use the correct unit based on the material or thing being measured		units of length. • Multiply and divide the metric numbers with whole numbers • Use conversions. Recall the units of length, mass and capacity.
FEBRUARY No of Days: 22	DATA HANDLING • Recording and organisation of data • Pictograph and its properties • Bar graph and its properties	Students will be able to: • Convert larger units to • Develop the skills to collect, organize and interpret data. • Describe pictograph and bar graph.	**KNOWLEDGE:** • Identify pictograph and bar graph. • Record and interpret the data. **SKILLS:** • Representation Skills • Writing Skills • Critical Thinking	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Analyse and illustrate the data. • Sketch bar graph and pictograph from given data.

			APPLICATION: • Construct bar graph and pictograph. • Demonstrate the given data on bar graph and pictograph. **UNDERSTANDING:** • Draw pictograph and bar graph by using given data. • Identifies bar graph and pictograph.		
	REVISION: TERM-2				
MARCH	**CONDUCTION OF TERM-II ASSESSMENT**				