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: 17	**LARGE NUMBERS** • 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	• 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.

			expanded form of large numbers. **UNDERSTANDING:** • List the numbers in ascending and descending order. • Tell the place value of a number.		
MAY No of Days: 12	**OPERATIONS 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.

CONDUCTION OF PT-1 ASSESSMENT					
JULY No. of Days: 23	**OPERATIONS ON NUMBERS** • Multiplication of 3 and 4 digit numbers. • Word problems related to multiplication • Division of large numbers by 3 and 4 digit numbers. **FRACTIONAL NUMBERS** • Addition and subtraction of fractions and word problems. • Multiplication and division properties. • Division of a fractional number.	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. • To differentiate and compare different fractions. • Express the multiplication and division of fractional numbers.	**KNOWLEDGE:** • Recall the different multiplication and division properties. • Identify the number relations. **SKILLS:** • Writing Skills • Critical Thinking • Counting skills **APPLICATION:** • Analyse the word problems carefully. • Practise the problems on fractional numbers. • Applying formula to calculate simple interest in various cases. **UNDERSTANDING:** • Identifying various mathematical operations. • Applying different mathematical operations to solve word problems.	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Solve sums and word problems. • Recognize that division is the opposite of multiplicatio n. • Calculate simple interest. • Identify and use different properties of multiplication and division for fractional numbers.

AUGUST No of Days: 23	**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. **ROUNDING NUMBERS** • Round off numbers to the nearest ones and tens place. **SIMPLE INTEREST** • Principal, Interest and Amount • Calculation of Simple interest by formula.	Students will be able to: • Check divisibility of different numbers. • Calculate H.C.F and L.C.M by long division method. • Apply divisibility rules appropriately. • Evaluate rounding off numbers to nearest places. • Define principal, interest and amount. • Use formula to calculate simple interest.	**KNOWLEDGE:** • Tell the facts about factors and multiples. • List the rounding off numbers. • Identify the relation between H.C.F and L.C.M of a number. **SKILLS:** • Problem Solving Skills • Writing Skills • Critical Thinking **APPLICATION:** • Practice H.C.F. and L.C.M • Apply rounding off numbers in real life. **UNDERSTANDING:** • Solve sums based on H.C.F and L.C.M. • Summarize the rounding off numbers. • Define and use simple interest terminology.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Identify and use divisibility rules. • Record H.C.F and L.C.M. of different numbers. • Evaluate rounding off numbers to nearest ones and tens places.

	SYMMETRY • Line of symmetry • Rotational symmetry • Symmetry in 2D and 3D shapes • Drawing 3d objects in 2D • Nets	Students will be able to: • 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 examples of different orders of rotational symmetry. • Compare symmetry in 2D and 3D shapes. • Brainstorming about the usage of symmetry. • Define nets. **SKILLS:** • Representation Skills • Writing Skills • Critical Thinking **APPLICATION:** • Construct different 2D and 3D shapes. • Apply knowledge of symmetry in real life. • Give examples of symmetry.	• Logical-mathematical intelligence • Intrapersonal • Spatial	Students will be able to: • Draw line of symmetry. • Give examples of different orders of symmetry. • Recall symmetry of 2D and 3D shapes. • Match the nets with appropriate solids.

			UNDERSTANDING: • 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	**REVISION: TERM-1** **CONDUCTION OF TERM-1 ASSESSMENT**				
OCTOBER No. of Days: 22	**AREA** • Concept of Area of rectangle and square. **SIMPLIFICATION OF NUMERICAL EXPRESIONS**	Students will be able to: • Solve sums on multiplication and division of decimals. independently. • Calculate area of rectangle and square using formula. • Know the simplification of numerical expressions. • To differentiate and compare different decimal fractions.	**KNOWLEDGE** • Tell the facts about simplification of numerical expressions. • Explain the formula to calculate area of rectangle and square. **SKILLS:** • Writing Skills • Problem Solving Skills • Counting skills **APPLICATION:** • Use formula to calculate area of rectangular and square shaped objects	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Simplify the numerical expressions. • Calculate area of a rectangle and a square.

			• Analyse the word problems carefully. • Give examples of decimal fractions. **UNDERSTANDING:** • Identifying various numerical expressions. • Express various decimal fractions.		
NOVEMBER No. of Days: 22	**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	Students will be able to: • 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. • Observe and understand the pattern.	**KNOWLEDGE:** • Recall the concept of percentage. • Tell the conversion of percentage into a fraction and a decimal. • Use money and metric measures as percentage. • Identify the number pattern. **SKILLS:** • Writing Skills • Critical Thinking • Counting skills **APPLICATION:** • Analyze the word problems carefully.	• Logical-mathematical intelligence • Intrapersonal	Students will be able to: • Understand the concept of percentage. • Identify & change decimal and whole number into percentage. • Solve problems on percentage. • Recognize the pattern.

	measures as percentage **NUMBER PATTERNS (ACTIVITY BASED)** • Square numbers and their sequence • Triangular numbers • Number surprises • Making border strips • Tiling patterns	• Recognize the basic unit which generates the pattern.	• Practice the word problems. • Applying formula to calculate percentage with the help of formula. • Construct the pattern. **UNDERSTANDING:** • Observe the pattern and find the solution. • Complete the given pattern. • Employ concept of percentage in real life.		
DECEMBER No of Days: 12	**BASIC GEOMETRICAL CONCEPTS**	Students will be able to: • Determine volume	**KNOWLEDGE:** • Tell the facts about triangles and circles. • Identify the relation between special pairs of	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Develop relationship among special pairs of angles.

	• Point, line segment, line and ray • Measurement and drawing of line segment • Angles and its properties • Triangles and its properties • Circles and its properties	of cube and cuboid by using formula. • Bisect a segment or angle.	angles. • Tell the shapes of cube and cuboid. **SKILLS:** • Counting Skills • Writing Skills • Critical Thinking **APPLICATION:** • Construct the line segment. • Apply concept of profit and loss in real life. **UNDERSTANDING:** • Solve sums based on profit and loss independently. • Summarize the properties of angles, triangles and circles. • Recognize the formula of profit percent and loss percent. • Differentiate between line segment, line and ray.		
CONDUCTION OF PT-II ASSESSMENT					

JANUARY No of Days: 18	**THE METRIC SYSTEM** • Metric system • Conversions • Addition, subtraction of metric system • Multiplication and division of metric measures **AVERAGE (ACTIVITY BASED)** • Concept of Average Applications of Average **DECIMAL FRACTIONS** • Conversion of decimal fractions • Multiplication and division of decimals. • Types of decimals. **PROFIT AND LOSS** • Cost price, selling price, profit and loss • Determining selling price	Students will be able to: • Convert larger units to smaller units and vice versa. • Record multiplication and division of metric measures. Understand the different types of decimals. • Solve sums on multiplication and division of decimals. • Calculate cost price and selling price. • Apply formula to calculate profit and loss.	**KNOWLEDGE:** • Tell the basic metric measures. • Brainstorming about the usage of metric system. • List the applications of average. • Brainstorming about the usage of decimal fractions. • List the formula to calculate profit and loss **SKILLS:** • Representation Skills • Writing Skills • Critical Thinking **APPLICATION:** • Practice conversion sums. • Apply knowledge of metric system in real life. • Apply concept of average in real life. **UNDERSTANDING:** • Explain	• Logical mathematical intelligence • Intrapersonal	Students will be able to: • Relates different commonly used larger and smaller units of length. • Use conversions. • Recall the units of length, mass and capacity. • Tell the average of the numbers. • Read and write the decimal fractions. • Identify & use profit and loss.

	and cost price • Profit and loss percentage		addition and subtraction of metric system. • Evaluate average.		
FEBRUARY No. of Days: 23	**DATA HANDLING** • Recording and organization of data • Pictograph and its **VOLUME** • Concept of volume • Indirect method of determining volume. properties • Bar graph and its properties	• 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 **APPLICATION:** • Construct bar graph and pictograph. • Demonstrate the given data on bar graph and pictograph. • Use formula to calculate volume. **UNDERSTANDING:** • Draw pictograph and bar graph by	• Logical mathematical intelligence • Intrapersonal	• Analyze and illustrate the data. • Sketch bar graph and pictograph from given data. • Calculate volume of cube and cuboid.

			using given data. • Identifies bar graph and pictograph.		
REVISION: TERM-2					
MARCH	**CONDUCTION OF TERM-II ASSESSMENT**				