

INFANT JESUS CONVENT SCHOOL
ANNUAL PLAN
MATHEMATICS
CLASS: IV

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
<p style="text-align: center;">APRIL No of Days: 18</p>	<ul style="list-style-type: none"> • NUMBERS Place and face value Indian and international system of numeration Comparing and ordering numbers Forming the greatest and smallest numbers 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Indicate place value and face value of a number. • Express big numbers into numerical form. • apply their understanding in real life situations. • formulate the greatest and the smallest numbers without and with repetition 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Represent 4 digit number in TH,H,T,O • Collect newspaper clippings in large numbers and Compare. • Form the greatest and the smallest numbers with the given digits. <p>SKILLS:</p> <ul style="list-style-type: none"> • Representation Skills • Counting Skills • Problem solving skills <p>APPLICATION: Demonstrate the numbers into greatest and smallest.</p> <ul style="list-style-type: none"> • Compare the numbers. • Differentiate Indian and International numerical system. 	<ul style="list-style-type: none"> • Logical-mathematical intelligence • Intrapersonal 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Recognise big numbers and apply them in appropriate place. • Understand numeration and able to use them at appropriate places. • Arrange numbers into ascending and descending orders.

			<p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Interpret and list the numbers into periods. • Compare different numbers 		
<p>MAY No of Days: 14</p>	<ul style="list-style-type: none"> • ADDITION AND SUBTRACTION Addition and subtraction 5 and 6 digit numbers <p>Properties of addition and subtraction</p> <p>Related word problems</p>	<p>Students will be able to: Apply addition and subtraction of 5- and 6-digit numbers without and with regrouping</p> <p>Visualise a variety of methods, useful for approaching problems.</p> <p>identify the properties of addition</p>	<p>KNOWLEDGE Know addition and subtraction of 3 digit and 4 digit numbers. Recall the properties.</p> <p>SKILLS Counting skills Representing skills Application skills</p> <p>APPLICATION Compute 5 and 6 digit numbers. Apply counting skills to solve word problems.</p> <p>UNDERSTANDING Arrange numbers by writing them vertically one below the other.</p> <p>Interpret real life cases when the problem is asked in the form of a statement.</p>	<ul style="list-style-type: none"> • Logical-mathematical intelligence Spatial intelligence 	<p>Students will be able to:</p> <p>Develop an understanding of addition and subtraction</p> <p>Analyse and demonstrate the word problems.</p>

**REVISION PT-1
CONDUCTION OF PT-1 ASSESSMENT(THIRD WEEK OF MAY)**

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
<p style="text-align: center;">JULY No of Days: 27</p>	<p>MULTIPLICATION Multiplication by 2 digit, 3 digit and 4 digit</p> <p>Properties of multiplication</p> <p>Multiplies of 10, 100</p> <p>Word related problems</p> <p>ROMAN NUMERALS</p> <p>PATTERNS</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> • develop understanding of multiplication • visualise a variety of methods, useful for approaching problems. • Know multiplication tables from 11 to 15. • identify Roman Numerals • understand and create growing and reducing patterns 	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> • Recall tables up to 10. • Know repeated addition concept. • List skip counting by 2s, 5s, 10s • Read Hindu Arabic Numerals • know about patterns and their unit of repeat, growing and reducing shape/number/alphabet pattern, repeating pattern, <p>SKILLS:</p> <ul style="list-style-type: none"> • Analytical Skills • Computing Skills • Problem solving skills • Patterning skills • Application skills • Representational skills <p>APPLICATION:</p> <ul style="list-style-type: none"> • Demonstrate the product of the numbers multiplied with 10 and 100 • Analyse the numbers to be multiplied first 	<ul style="list-style-type: none"> • Logical-mathematical intelligence • Intrapersonal • Spatial intelligence 	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Apply the concept of multiplication to solve questions. <p>Use different strategies to do multiplication. Perform multiplication of 3 digit number, 4 digit by 2 digit number and 3 digit numbers Understand Roman numerals and able to use them at appropriate places.</p> <p>Use mathematical patterns, i.e., number</p>

			<p>and then find the product.</p> <ul style="list-style-type: none"> • Apply properties of multiplication. • Represent numbers in the form of Roman numerals. • Give examples of different patterns. <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> • Calculate 3 digit, 4 digit numbers with 2 digit numbers.. • Perform word problems. • Compare Hindu Arabic- Roman numerals • Infer numbers, pictures and alphabets patterns. 		<p>patterns in addition,</p> <p>subtraction, multiplication and division.</p>
<p>August No of Days: 23</p>	<p>DIVISION Division of a 2-, 3-, 4-digit number</p> <p>Related word problems</p> <p>UNITARY METHOD</p> <ul style="list-style-type: none"> • To find the value of many • To find the value 	<p>divide a 4-digit number by a 1-digit number and a 2-digit number.</p> <p>Identify different types of fractions</p>	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> • Memorize tables • Know how to do division of 2 digit number by 1 digit number. • Relate use of division in real life situations. • Derived fractions from numbers. <p>SKILLS</p>	<p>Logical-mathematical intelligence</p> <ul style="list-style-type: none"> • Intrapersonal • Spatial intelligence 	<p>Compare relationship between multiplication and division</p> <p>Learn steps involved in division of a 2-, 3-, 4-digit number by a 1- and a 2-digit number without and</p>

	<p style="text-align: center;">of one</p> <ul style="list-style-type: none"> • Miscellaneous problems 		<ul style="list-style-type: none"> • Application skills • Representational skills • Creative-thinking skills. • Problem-solving skills • Computing skills <p>APPLICATION Demonstrate relationship between multiplication and division. Able to solve division word problem. Apply skills in real life situations. Create a grid of 10 by 10 of 100 squares</p> <p>UNDERSTANDING Differentiate between multiply and division. Verify the answer by applying the formula. Evaluate division with long as well as short division method. Compare fractions Differentiate types of fractions.</p>		<p>with remainder</p> <p>understand fractions and use them to solve their day-to-day problems.</p>
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<p>SEPTEMBER</p> <p>No. of Days:05</p>	<p>TIME</p> <p>Using a.m. and p.m. Time in hours, minutes and seconds The 24-hour clock time Calendar 2022 Converting time</p> <p>Addition and subtraction of time</p>	<p>Reducing fractions to its lowest form. Compare fractions with like denominators</p> <ul style="list-style-type: none"> • To read time on a clock to exact minute • To express time in a.m. and p.m • To understand the relation between 24-hour and 12-hour time and its conversion • To understand duration of time and duration 	<p>KNOWLEDGE knows basic shapes and their division in halves Demonstrate how to split the pizza in half, quarters and fourths</p> <p>SKILLS Application skills Creative-thinking skills. Problem-solving skills</p> <p>APPLICATION Reduce fraction to its simplest form Design the fraction problems.</p> <p>UNDERSTANDING Compare fractions Differentiate types of fractions.</p> <p>KNOWLEDGE Know about half past, quarter past, quarter to time, concept of a.m. and p.m. Sketch a clock on notebook as cover page.</p> <p>SKILLS Critical thinking Collaboration Communication Social skills Creativity Life skill</p> <p>APPLICATION Employ punctuality and</p>	<ul style="list-style-type: none"> • Logical-mathematical intelligence • Intrapersonal <p>Spatial intelligence</p>	<p>able to read and write fractions and make comparisons using the formulae.</p> <p>to tell time to the exact minute. To express time in a.m. and p.m.</p> <ul style="list-style-type: none"> • To be able to convert time in 12-hour clock to 24-hour clock and vice versa. • To express time duration in hours, minutes and days. • To understand and identify occurrence of leap year. • To be able to write dates and work with timeline. <p>To find the</p>
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		of days	time management in school life is the key to success for all students. Spot the mistake and correct it. UNDERSTANDING Differentiate b/w a.m. and p.m. Solve different units of time and conversions. Prepare T-chart to find elapsed time is an easy strategy for the students		value of many and one
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REVISION TERM-1

CONDUCTION OF TERM 1 ASSESSMENT

DECEMBER NO.OF DAYS: 11	<p>Geometrical shapes 2 D and 3D shapes</p> <p>Elements of a circle Relation between radius and diameter of the circle. Circumference of a circle Geometrical shapes and tiling Symmetry</p>	<ul style="list-style-type: none"> • To measure and construct line segments. • To identify closed and open curves. • To identify different polygons and their types. • identify circle and 	<p>KNOWLEDGE know about plane and solid shapes, vertical lines, horizontal lines, circle and its related terms list the types of symmetry</p> <p>SKILLS Creating Working together Inquiry</p> <p>APPLICATION Construct parallel lines and intersecting lines with ice-cream sticks and write their attributes as</p>	<ul style="list-style-type: none"> • Logical-mathematical intelligence • Spatial intelligence • Intrapersonal intelligence 	<p>Construct circles of different radius using a compass. Write and draw circle and its parts.</p>
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		its parts. to construct circles of different radii using a compass.	well. Practice to draw and find relation between radius and diameter of the circle. UNDERSTANDING Interpret geometrical shapes and tiling. Able to draw a diagram with the given information.		
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REVISION PT-3		
CONDUCTION OF PT-3		

JANUARY NO.OF DAYS: 21	PERIMETER AND AREA Concept of area Unit of area Determine area of a figure by counting squares. Standard unit of area Fractional Numbers Reducing to lowest form Comparison of	Reducing fractions to its lowest form. Compare fractions with like denominators To add and subtract fractions with like and unlike denominators To solve fraction word problems using the CUBS	KNOWLEDGE knows basic shapes and their division in halves Demonstrate how to split the pizza in half, quarters and fourths SKILLS Application skills Creative-thinking skills. Problem-solving skills APPLICATION Reduce fraction to its simplest form Design the fraction problems. UNDERSTANDING Compare fractions	Mathematical comprehension Problem solving Critical thinking Spatial intelligence • Logical-mathematical	develop the ability to visualize shapes and their measurements, which will aid in calculating perimeter and area accurately.
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<p>FEBRUARY</p> <p>NO OF DAYS: 22</p>	<p>mixed numerals</p> <p>ADDITIONAL AND SUBTRACTION OF FRACTIONAL NUMBERS</p> <p>Addition of fractional numbers</p> <p>Subtraction of fractional numbers</p> <p>Mixed numerals</p>	<p>strategy.</p> <p>To add and subtract fractions with like and unlike denominators</p> <p>To solve fraction word problems using the CUBS strategy.</p>	<p>Differentiate types of fractions.</p> <p>KNOWLEDGE</p> <p>Know basic addition and subtraction</p> <p>Recall the difference between like and unlike Fractions.</p> <p>SKILLS</p> <p>Critical thinking</p> <p>Creativity</p> <p>Communication Skills</p> <p>Social skills</p> <p>APPLICATION</p> <p>Interpret like and unlike</p> <p>Compute addition and subtraction fractional numbers</p> <p>Able to solve word problems with CUBS strategy</p> <p>UNDERSTANDING</p> <p>Interpret real life cases when the problem is asked in the form of</p> <p>Fractional numbers</p> <p>Perform basic operations</p>	<p>intelligence</p> <ul style="list-style-type: none"> • Intrapersonal <p>Spatial intelligence</p> <ul style="list-style-type: none"> • Logical-mathematical intelligence • Spatial intelligence • Intrapersonal intelligence 	<p>able to read and write fractions and make comparisons using the formulae.</p> <p>demonstrate accuracy and precision in performing calculations involving addition and subtraction of fractions, paying attention to details such as common denominators, equivalent fractions, and regrouping. apply their</p> <p>,</p>
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MARCH	DATA HANDLING	<p>To construct and interpret bar graph with scale.</p> <ul style="list-style-type: none"> • To be able to construct and pictographs 	<p>KNOWLEDGE know about grouping of data collected, simple pictograph and bar graph. Select an image of their choice and based on that they will create a pictograph and frame questions related to it.</p> <p>SKILLS Creating Collaboration Inquiry</p> <p>APPLICATION Construct a pictograph of your family and relatives how many friends do they have and make a pictograph of the collected data by pasting stick-ons or bindis for each.</p> <p>UNDERSTANDING Compare different bar graphs and answer the questions.</p>	<ul style="list-style-type: none"> • Logical-mathematical intelligence • Spatial intelligence • Intrapersonal intelligence 	<p>To be able to interpret and construct pictographs</p> <p>To be able to interpret and construct bar graphs</p>
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REVISION TERM-2

FINAL ASSESSMENT