## INFANT JESUS CONVENT SCHOOL ANNU AL PLAN(24-25) <br> MATHEMATICS <br> CLASS: VII

| MONTH/NO OF DAYS | TOPIC: SUB TOPIC | OBJECTIVES | AIDS/ACTIVITIE S | MULTIPLE INTELLIGENCE SKILLS | LEARNING OUTCOME |
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| APRIL <br> No of Days: 18 | INTEGERS <br> - Addition/subtractio n of integers on number line <br> - Addition/subtracti on of integers and their properties. <br> - Multiplication of integers with properties. <br> - Division of integers with properties. <br> Application of integers in day-today life. | Students will be able to: <br> - Add/ subtract integers on number line. <br> - Identify different properties of integers. <br> - Compare, add, subtract, multiply and divide integers. Apply knowledge to solve daily life situations related to integers. | KNOWLEDGE: <br> - List integers in ascending order. <br> - Locate integers correctly on number line. <br> - Brainstorming by comparing different integers. <br> SKILLS: <br> - Reasoning Skills <br> - Writing Skills <br> - Critical Thinking <br> APPLICATION: <br> - Discussing temperature of different cities using integers. <br> - Computing marks for a test in case | - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal | Students will be able to: <br> - Evaluate sum or difference of integers. <br> - Apply properties of integers to find product of integers. <br> - Practice division of integers and their application <br> Comp ute day-today life problems related to integers. |


|  |  |  | of negative marking. <br> - Classifying and using different properties of integers. <br> UNDERSTANDING: <br> - Calculate profit/loss using integers. <br> - Compare maximum and minimum temperature. |  |  |
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| MAY <br> No of Days: 14 | VISUALISING SOLID <br> SHAPES: <br> - Different 3-D shapes <br> - Views of 3-D shapes <br> - Nets of solid figures. <br> - Views of solids after cutting/slicing <br> - Shadow play <br> FRACTIONS AND DECIMALS <br> - Fractions and it's types. <br> Addition, subtraction, multiplication and | Students will be able to: <br> - Differentiate 2D and 3-D shapes. <br> - Identify top, front and side views of solid figures. <br> - Recognize nets of solids. <br> - Predict shadows of solids. <br> Distinguish different fractions and decimals. | KNOWLEDGE: <br> - Name various 3D figures with their edges, faces and vertices. <br> - Identify and differentiate different fractions. <br> SKILLS: <br> - Reasoning Skills <br> - Aesthetic skills <br> - Critical Thinking | - Spatial <br> - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal | Students will be able to: <br> $\bullet$ Recognize each solid and its net. <br> - Express the properties of a solid based on its net, shadow and different views. <br> Solve fractions |



|  |  |  | integers under addition,subtrac tion, multiplicati on, division. <br> UNDERSTANDING: <br> - Apply basic operations on fraction and decimals. |  |  |
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|  |  |  | SION: PT-1 |  |  |
|  | CONDUCTION 0 | T-1 ASSESSM | T (Third Week | May) |  |
| JULY <br> No of Days: 27 | DATA HANDLING <br> - Arithmetic mean <br> - Mode <br> - Range <br> - Median <br> - Bar graph <br> Double bar graph | Students will be able to: <br> Students will be able to find difference between mean mode and median | UNDERSTAND <br> - the difference between mean mode and median and draw bar graph <br> SKILLS: <br> - Reasoning Skills | - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal | Students will be able to apply mean mode in daily life situations. |


|  | SIMPLE EQUATIONS <br> - What an equation is? <br> - Solving an equation. <br> - Applications of simple equations to practical situations. | Write a simple equation. Solve equation with different methods. <br> Use simple equation in solving daily life situations. | - Aesthetic skills <br> - Critical Thinking Identify constants and variables in a simple equation. <br> - Forming and solving simple equation. <br> KNOWLEDGE <br> - To frame simple equation and find its solution. |  | Frame simple equation with given statement. Find solution of an equation and a situation from daily life. |
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| AUGUST <br> No of Days: 23 | LINES AND ANGLES: <br> - Complementary angles <br> - Supplementary angles <br> - Intersecting lines <br> - Vertically opposite angles <br> - Parallel lines and transversal | Students will be able to: <br> - Define and interpret complemen tary and supplement ary angles <br> - Identify vertically opposite angles. <br> - Understand the angles | KNOWLEDGE: <br> - Identify parallel and intersecting lines. <br> - Differentiate between different triangles. | - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal <br> - Spatial | Students will be able to: <br> Recog nize Pair of angles formed by transversal <br> - Know condition s of parallelis m. |



|  |  |  | - Identify different angles formed by transversal. <br> - Find each element of a triangle by using different properties of triangles. |  |  |
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| SEPTEMBER <br> No of Days: 05 | REVISION: TERM-1 |  |  |  |  |
| CONDUCTION OF TERM-1 ASSESSMENT (Second Week of September) |  |  |  |  |  |
| OCTOBER <br> No of Days: 22 | COMPARING QUANTITIES: <br> - Meaning of percentage <br> - Converting fractions/decimals to percentage <br> - Converting percentage to fractions/decimals <br> - Use of percentage <br> - Ratio to percent <br> - Increase or decrease as percent <br> - Profit and loss <br> - Simple interest | Students will be able to: <br> - Find equivalent ratios and percentage from fraction/de cimal and vice-versa. <br> - Determine profit/loss and simple interest numbers | KNOWLEDGE: <br> - know about percentage and conversion of fractions into percentage <br> SKILLS: <br> - Reasoning Skills <br> - Analytical Skills <br> - Critical Thinking <br> - Observational Skills <br> APPLICATION: | - Spatial <br> - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal | Students will be able to <br> - Convert and compare different quantities such as percentag e, ratio, fractions and decimals. <br> - Apply knowledge of profit/loss and |


|  |  |  | - Calculating ratio, proportion and percentage. <br> - Solving daily life situations and finding simple interest or profit/loss. <br> UNDERSTANDING: <br> - Compare different quantities and determine percentage, profit/loss and simple interest. |  | simple interest in day-to-day life. |
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| NOVEMBER No of Days: 23 | RATIONAL NUMBERS <br> - Positive and negative rational numbers <br> - Rational no on a no line. <br> - Equivalent rational numbers. | - Students will be able to define and compare rational numbers <br> - Students will be able to multiply and divide | KNOWLEDGE <br> - Computing rational numbers between given two rational numbers. <br> - Adding, subtracting, multiplying and dividing rational numbers. | Logical <br> Mathematical <br> Interpersonal intrapersonal | - Students will be able to: <br> - Arrange rational numbers in ascending /descendi ng orders. <br> - Locate rational |





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| JANUARY <br> No of Days: 21 | EXPONENTS AND POWERS: <br> - Exponents <br> - Laws of exponents <br> - Decimal number system <br> Expressing large numbers in the standard form | Students will be able to: <br> - exponents <br> - Use laws to solve exponents. <br> - Express large numbers in standard form. | SKILLS: <br> - Reasoning Skills <br> - Writing Skills <br> - Critical Thinking <br> APPLICATION <br> Expressing large numbers using exponents <br> Solving exponents using laws of exponents. <br> UNDERSTANDIN G <br> Write large numbers in stand form <br> Express numbers using exponents. KNOWLEDGE: <br> - Express the difference between Earth and moon in meters and kilometers. | - Logicalmathematical <br> - Interpersonal <br> - Intrapersonal <br> - Naturalist <br> - Spatial | - Compare different exponenti al numbers. <br> - Apply laws of exponent <br> - Express standard form of large numbers. |



|  | REVISION: TERM-2 |
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| MARCH | CONDUCTION OF TERM-2 ASSESSMENT |

