## VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR, PIMPLI-BARAMATI

## Annual Curriculum Plan (2023-24)

Std: VII A, B & C

## **Mathematics**

Month	Topic	Learning Outcomes	Subject Enrichment Activity
April	Chapter No. 1 Integers	<ul> <li>Students will be able to:</li> <li>Define the set of integers, positive numbers,</li> <li>Negative numbers, opposites and signs</li> <li>Calculate height above the sea level and depth below the sea level.</li> <li>Multiplication and division of integers.</li> </ul>	1. Multiplication and Division of integers using different colours.
June	Chapter No. 2 Fractions and Decimals (Exercise 2.1 to 2.3)	<ul> <li>Students will be able to:</li> <li>Interpret the division and multiplication of fractions.</li> </ul>	1. Multiplication and division of fractions.
	Chapter No. 2 Fractions and Decimals (Exercise 2.4 and 2.5)	•Interpret the division and multiplication of decimals.	Multiplication of decimals.
	<b>Chapter No. 3</b> Data Handling	<ul> <li>Students will be able to:</li> <li>Find representative values (mean, median, mode).</li> <li>Draw double bar graph by organizing data properly.</li> </ul>	<ol> <li>Drawing and Reading         <ul> <li>Double Bar Graphs.</li> </ul> </li> <li>Record the age (in years)         <ul> <li>of all your classmates</li> <li>tabulate the data and find mean, median and mode.</li> </ul> </li> </ol>

First Unit Test June, 2023						
July	<b>Chapter No. 4</b> Simple Equations	<ul> <li>Students will be able to: <ul> <li>Use algebraic symbols, equations and formulae to solve mathematics problems.</li> <li>Use real life situations to show how the symbols take the place of numbers in simple formulae.</li> </ul> </li> </ul>	1. Worksheet			
	<b>Chapter No. 5</b> Lines and Angles	<ul> <li>Students will be able to: <ul> <li>Verify that each pair of corresponding angles are equal.</li> <li>Verify that each pair of alternate interior angles is equal.</li> </ul> </li> </ul>	Angles formed by parallel lines and transversal.			
August	<b>Chapter No. 6</b> The Triangle and its Properties	<ul> <li>Students will be able to:</li> <li>Find out unknown angle of a triangle when its two angles are known.</li> <li>Understand Angle sum property and Pythagoras theorem of right angled triangle.</li> </ul>	<ol> <li>To verify exterior angle property of a triangle</li> <li>To verify angle sum property of a triangle.</li> </ol>			
September	<b>Chapter No. 14</b> Symmetry	Students will be able to:  • Identify symmetrical figures from their environment and identify the objects which show rotational symmetry.	Thread Painting.			
First Terminal Examination September, 2023						

October	Chapter No. 8 Comparing Quantities	<ul> <li>Students will be able to: <ul> <li>Find the difference between the ratios</li> </ul> </li> <li>Solve problems related to conversion of percentage to fraction and decimal and vice versa.</li> <li>Calculate profit/loss percent and rate percent, simple interest.</li> </ul>	Role play -Profit, loss and Interest.			
	Chapter No. 9 Rational numbers	<ul> <li>Students will be able to:</li> <li>Recall the properties of rational numbers and perform operations on rational numbers</li> </ul>	Addition Hill Activity			
November	<b>Chapter no. 11</b> Perimeter and Area	<ul> <li>Students will be able to:</li> <li>Find the area and perimeter of plane figures such as square, rectangle etc.</li> <li>Use unit square grid sheets in order to find the perimeter and area of parallel</li> <li>Describe the relationships among radius, diameter, and circumference of circles</li> </ul>	1. To derive the formula for the area of parallelogram  2. To verify that the formula for area of circle of radius $r$ is $\pi$ $r^2$			
December	<b>Chapter No. 12</b> Algebraic Expressions	<ul><li>Student will be able to:</li><li>Solve algebraic expressions.</li><li>Find the value of expression.</li></ul>				
	Second Unit test, December 2023					
January	<b>Chapter No. 13</b> Exponents and Powers	<ul> <li>Students will be able to:</li> <li>Learn laws of exponent.</li> <li>Large distances e.g. The distance between Sun and Earth is 1.496 x 10<sup>11</sup> m.</li> </ul>	Assignment on Exponents and powers			

February Chapter No. 14 Visualizing Solid Shapes	<ul> <li>Students will be able to:</li> <li>identify 2D and 3D shapes like computer, laptops and phone.</li> <li>identify and count their number of faces, edges and vertices of different solid shapes.</li> </ul>	To draw 3-D shapes by using isometric dot paper.			
Second Terminal Examination, March 2024					