

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)

STANDARD CURRICULUM

CLASS: V

SUB: MATHEMATICS

<u>EXAMINATION</u>	<u>MONTH</u>	<u>CONTENT</u>	<u>METHODOL OGY</u>	<u>SKILLS / CORE VALUES</u>	<u>LEARNING OUTCOMES</u>
TERM 1	April	Ls-2 Numbers and Number names Ls-3 Addition and Subtraction	<ul style="list-style-type: none">• Activity on Roman numerals• Use of Teach next on Roman Numerals• Writing Roman Numerals using match sticks,• Framing stories on Addition and Subtraction.	<ul style="list-style-type: none">• Knowledge• Self – Awareness• Reasoning	<ul style="list-style-type: none">• Read and write 6 and 7 digit numbers• Read numbers in Indian and International Place Value Tables.• Compare two 6/7 digit numbers.• Read and write basic 7 Roman numerals.• <u>ADDITION & SUB</u>• Addition and Subtraction of 6/7 digit numbers with or without regrouping.• Applying the skill of addition and subtraction to solve word problems and everyday problems.• Actual and Estimation of difference and sum.
PERIODIC TEST I (july)	June/July	Ls-4 Multiplication and Division. Ls-5 Factors and Multiples	<ul style="list-style-type: none">• Framing stories by multiplication and division• Factor trees, snake and ladder using prime and composite numbers,• Making Factor trees using bindis.• Use of Math Lab activities	<ul style="list-style-type: none">• Environmental Awareness• Teamwork• Problem solving• Reasoning	<ul style="list-style-type: none">• Multiplication of 4/5 digit numbers.• Applying the skill of Multiplication to solve the word problems.• Divide 6/7 digit numbers with or without remainder.• Using the properties of Division and using them for quick calculations.• <u>FACTORS & MULTIPLES</u>

					<ul style="list-style-type: none"> • Understanding of • Prime and Composite numbers. • Concept of HCF & LCM • Application of HCF and LCM.
	August	<p>Ls-6 Common Fractions.</p> <p>Ls-13 Geometry</p>	<ul style="list-style-type: none"> • Paper cutting activity on fractions. • Making different polygons with match sticks. • Use of Teach Next Module on common fractions. • Using fraction tiles in the Math lab to make the concept of fractions more comprehensive. • Making the triangles of different degrees using protractor and compass. 	<ul style="list-style-type: none"> • Environmental Awareness • Camaraderie • Patriotism and Nationalism 	<ul style="list-style-type: none"> • Concept of Fractions. • Meaning of Numerator and Denominator. • Comparison of fractions. • Addition and Subtraction of Fractions • Multiplication of fractions with whole numbers. • Division of fractions by Natural numbers. • GEOMETRY • Concept of Line, Line segment and Ray. • Types of Lines • Measurement and Comparison of Angles. • Types of Angles • Congruence of Angles • Making Angles using a protractor and a compass • Symmetry of figures
<p>HALF YEARLY EXAM(sept)</p> <p>Term 2</p>	September October	<p>Ls-7 Decimals</p> <p>Ls-8 Money</p>	<ul style="list-style-type: none"> • Decimal numbers on abacus • Decimal numbers on graph paper • Addition and Subtraction of money using fake currency and coins. • Reading of grocery bills 	<ul style="list-style-type: none"> • Positive Attitude • Discipline and Diligence • Self-Direction • Diversity and Togetherness • Problem solving • Decision making 	<ul style="list-style-type: none"> • MONEY • Units of Money • Conversion of the units of money in rupees and paisa. • Addition, Subtraction, Multiplication and Division in money terms • Applying the learnt knowledge to solve everyday money issues of shopping and checking of bills

			to find any errors.		
	November	<p>Ls-9 Measures of Length.(ACTIVITY)</p> <p>Ls-10 Measures of Weight.</p>	<ul style="list-style-type: none"> Manipulating weights and capacities(using stones and soft drink bottles) Comparison of heights of the tallest buildings of different countries. Teach next Module on the Measures of Length and Weight. 	<ul style="list-style-type: none"> National Pride Gender Sensitivity Logical thinking 	<ul style="list-style-type: none"> <u>LENGTH</u> Units of Measurement Conversion of units of length Addition, Subtraction, Multiplication and Division of the measures of Length. Reading and Solving of Word Problems. <u>WEIGHT</u> Units of Measures of Weight Conversions of units of measurement of weight. Addition, Subtraction, Multiplication and Division of measures of weight. Applying the knowledge of measures of weight to solve everyday problems.
PERIODIC TEST II (Dec)	December	<p>Ls-11 Measures of Capacity</p> <p>Ls-12 Time</p>	<ul style="list-style-type: none"> Reading and showing time with clock Making 24 Hr clock Teach Next Module on measures of Capacity and Time. 	<ul style="list-style-type: none"> Time Management Decision making 	<ul style="list-style-type: none"> Units of measurement of Capacity. Conversion of the units of capacity. Addition, Subtraction, Multiplication and Division of the units of capacity. Applying the learnt knowledge to solve everyday

			<ul style="list-style-type: none"> Measuring the liquids using measuring jars. 		<p>problems.</p> <ul style="list-style-type: none"> TIME Units of Time Conversion of units of Time Addition and Subtraction of units of Time. Reading of 12 hr and 24hr clocks. Calculating the duration of the activity.
	January	<p>Ls-16 Patterns(ACTIVITY)</p> <p>Ls-14 Perimeter area and Volume</p> <p>L-17 Handling data</p>	<ul style="list-style-type: none"> Veg dying for creating various patterns and greeting card Making a frame for a scenery and finding its perimeter and area. Areas and perimeter of monuments of different countries (comparison) Activity on collection of data, bar graphs Teach Next Module on Patterns, Handling Data and Perimeter, area and volume. 	<ul style="list-style-type: none"> Respecting Differences Effective Communication Innovative mind set curiosity Confidence Self-Direction Right Conduct 	<ul style="list-style-type: none"> Different Patterns Patterns in Square Numbers Patterns of Triangular Numbers. Pascal's Triangle Border Strips Tiling Patterns <u>PERIMETER, AREA & VOLUME</u> Concept of Perimeter, Volume and Area. Finding the perimeter of a rectangle and a square Finding Area of a rectangle and square Finding the volume of a cube and cuboids. Solving the word problems of Perimeter, Area and Volume. <u>DATA HANDLING</u> Two Dimensional data Representing data in tabular form and in pictographs. Bar Graphs: Concept, reading and plotting. Reading of data given in Pie Carts.

Annual Examination	February	Ls-15 Perspective view and Net of 3-D objects.(Activity)	<ul style="list-style-type: none"> • Making 3-D shapes using nets 	<ul style="list-style-type: none"> • Health and Wellness • Efficient Time Management • Decision making co-operation 	<ul style="list-style-type: none"> • Perspective view • Perspective Image • Eye Point • Vanishing Point • Horizon • Perspective of a Cube • Floor Maps