

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)**STANDARD CURRICULUM****CLASS: IV****SUB: MATHEMATICS**

<u>EXAMINATION</u>	<u>MONTH</u>	<u>CONTENT</u>	<u>METHODOLOGY</u>	<u>CORE VALUE</u>	<u>LEARNING OUTCOMES</u>
TERM 1	April	Ls-2 Numbers and Number names Ls-3 Roman Numerals	<ul style="list-style-type: none">• Roman numbers using matchsticks.• Using teach-next module to show roman numerals.	Creative thinking	<u>Students will be able to-</u> <ul style="list-style-type: none">• Write Multiplication facts.• Write tables up to 10x10.• Applies the four operations to life situations.• Write the Roman numerals for the Hindu-Arabic numbers.
PERIODIC TEST I (July)	June/July	Ls-4 Addition Ls-5 Subtraction Ls-6 Multiplication	<ul style="list-style-type: none">• Framing stories for multiplication problems.• Teach next module will be shown to show subtraction with grouping.• Multiply two and three digit numbers using lattice algorithm and the standard algorithm.	Self-direction, Creative thinking	<u>Students will be able to-</u> <ul style="list-style-type: none">• Adds and subtracts multiples of 10 and 100 mentally.• Completes multiplication facts by adding partial products mentally.• Multiply two and three digit numbers using lattice algorithm and the standard algorithm.
	August	Ls-7 Division	<ul style="list-style-type: none">• Framing stories for division problems.• Teach-next module to show division.	Decision making	<u>Students will be able to-</u> <ul style="list-style-type: none">• Divide a given number by another number in various ways such as : By drawing dots , by grouping ,by using multiplication facts.• By repeated subtraction.

<p>HALF YEARLY EXAM(sept)</p> <p>Term 2</p>	<p>September October</p>	<p>Ls-8 Factors and multiples Ls-15 Geometry</p>	<ul style="list-style-type: none"> Eratosthenes sieve for finding prime numbers. <ul style="list-style-type: none"> snakes and ladders game for factors and multiples Dance on factors and multiples song. MATH LAB Using Tangrams to create different shapes. 	<p>Critical Thinking</p>	<p><u>Students will be able to-</u></p> <ul style="list-style-type: none"> Find factors of a number. Understand the different properties of factors. Understand composite and prime numbers. Find the common factors and highest common factor. Draw a circle using compass. Identify centre, radius and diameter of a circle. Explore the area and perimeter of simple shapes. Read and draw 3-D objects making use of familiarity with the conventions used.
	<p>November</p>	<p>Ls-11 Measurement of Weight Ls-12 Measurement of Capacity(ACTIVITY) Ls-13 Measurement of Length (Activity) Ls-9 Common Fractions</p>	<ul style="list-style-type: none"> Manipulating weights and capacities(using stones and soft drink bottles) Representing equivalent fractions using <ul style="list-style-type: none"> Paper folding. .ISA ACT. – comparing the lengths of major rivers flowing in USA..... 	<p>Enquiry Creative thinking</p>	<p><u>Students will be able to-</u></p> <ul style="list-style-type: none"> Weigh objects using a balance and standard units. Determine sums and differences of weights. Estimate the weight of an object and verifies using balance.
<p>PERIODIC TEST II (Dec)</p>	<p>December</p>	<p>Ls-10 Money Ls-14 Measures Time</p>	<ul style="list-style-type: none"> Collecting and comparing currency from different countries Making clock and reading and showing time with 	<p>Decision making</p>	<p><u>Students will be able to-</u></p> <ul style="list-style-type: none"> Convert Rupee to paise. Add and subtract amounts using column addition

			clock.		<p>and subtraction.</p> <ul style="list-style-type: none"> • Use operations to find the totals, change, multiple costs and unit cost. • Read clock time to the nearest hours and minutes. • Estimate the duration of events. • Compute the number of days between two dates.
	January	Ls-17 Data Handling Ls-16 Patterns(ACTIVITY)	<ul style="list-style-type: none"> • .ACT.Activity on collection of data on amount of garbage thrown into the major rivers of ,drawing bar graphs . • Veg dying for creating various patterns and greeting card 	Right conduct	<p><u>Students will be able to-</u></p> <ul style="list-style-type: none"> • Collect data and represent in the form of bar graphs. • Draw inference by discussing with the teachers. • Identify pattern in multiplication and division. • Cast out nines from a given number to check if it is a multiple of nine. • Identify geometrical patterns based on symmetry.
Annual Examination	February	REVISION	<ul style="list-style-type: none"> • Teach-next module for taking maths quiz. 	Excellence in performance	Solve the Quiz shown on teach-next.