

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)

STANDARD CURRICULUM

CLASS: VIII

SUB: MATHEMATICS

<u>Sl.no</u>	<u>Month</u>		<u>Topic</u>	<u>Evaluation</u>	<u>Skill</u>	<u>Activity</u>	<u>Core Value</u>
1	April	TERM I	Rational Numbers, Linear Equations in one variable.	Periodic Test 1	Application skills, computation skills	Represent rational number on number line in a creative way.	Self-awareness
					Analytical skills, Understanding symbolic representations, like variables, problem solving, problem solving skills	Form an algebraic expression for the given question.	
2	May						
3	June		Understanding Quadrilaterals		Analysis, application skills, logical reasoning	Proving the angle sum property of a quadrilateral. Property of diagonals of parallelogram by paper folding method.	Team work
4	July		Data Handling. (Activity), Squares and Square Roots		Collecting and organizing data Reading and graphing data Simulating data collection	Draw a pie-chart showing the number of students interested in a particular sport.	Environmental awareness
					Being able to recall math facts, Estimating, Understanding language like perfect square numbers, square root.	Finding the one's digit of the square of very large numbers without calculation.	

5	August		Algebraic Expressions and Identities, Exponents and Powers.		Understanding symbolic representations, like variables	Pattern method to multiply terms.	Patriotism and nationalism
					Factoring, simplifying, application skills, analytical skill		
					simplifying, application skills, analytical skill	Represent different units of length into exponents.	
6	Sep		Playing with Numbers	HALF YEARLY SYLLABUS	Being able to recall math facts	Find the divisibility of any given number by a particular number.	Discipline and Diligence
					Comparing numbers and place value		
					Estimating		
7	Oct	TERM 2	Practical Geometry, Cubes and Cube roots.	Periodic Test 2	Handling and use of mathematical tools, analytical skill, Recognizing shapes	Construct a quadrilateral with the given measurement.	Diversity and Togetherness
					Understanding geometric properties Measuring shapes		
					Using geometric vocabulary		
					Being able to recall math facts, Estimating, Understanding language like perfect cube numbers, cube root.	Making a bigger 3-D cube by using 3-D square boxes. Adding consecutive odd numbers to find cube of a number.	

8	Nov		Factorization (Included in PD 2) Comparing Quantities.		Factoring, simplifying	Making a factor tree.	Gender sensitivity
					Solving for and using percentages, application skills	Role play to explain discount, profit, loss, VAT, etc.	
9	Dec		Visualizing Solid Shapes (Activity), Mensuration.		Recognizing shapes	Making 3-D shapes and its observation.	Perseverance
					Understanding geometric properties like symmetry, application skills, Critical thinking.		
					Application skills, analytical thinking	Deducing the formula of trapezium through rectangle and triangle formula. Making a cylinder from rectangular sheet. Finding volume of cuboid by joining cubes.	
10	Jan		Introduction to Graphs		Collecting and organizing data Interpretation skills Reading and graphing data Simulating data collection, application skills	Making bar graph by recording maximum and minimum temperature for a week and its interpretation.	Effective communication