

ARMY PUBLIC SCHOOL, MUMBAI (2019-2020)
STANDARD CURRICULUM

CLASS: VII

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	<u>Chapter-1</u> Integers	Periodic Test 1	Application skills, Understanding numerical values and basic math symbols Doing numerical operations (addition, subtraction, division, multiplication)	Flash card to find the total on integers. Multiplication of integers on number line. Representing daily transactions in terms of integers.	Self-awareness	
3	June		<u>Chapter-2</u> Fractions and Decimals		Analytical thinking, Computation skills	Represent your daily activity in the form of fractions. Flash card activity.		Team work
4	July		<u>Chapter-3</u> Data handling <u>Chapter-4</u> Simple equations <u>Chapter-5</u> Lines and Angles		Reading bar graphs, drawing bar graph, interpretation skills, and Application skills.	List the places and instances where data handling is useful in everyday life. Represent the hours spent in your daily activities in a bar graph form.		
			Application skills, critical thinking, Understanding symbolic	Mind-reading activity to from expressions.				

					representations, like variables		
					Application skills, logical thinking.	Find the different types of angles formed in a table, book, doors, windows, walls, alphabets and steering wheel. Identify different types of angles formed by intersecting lines.	
5	August		<u>Chapter-6</u> The Triangle and its Properties <u>Chapter-7</u> Congruence of Triangles		Analytical thinking, Critical thinking, Reasoning skills, <u>Understanding geometric properties</u>	To prove angle sum property, To prove exterior angle property of a triangle. Proving congruence of triangles by taking triangles of different types and in different orientation. Proving congruence of squares and circles by paper folding method.	Patriotism and nationalism
6	Sep		<u>Chapter-8</u> Comparing Quantities	HALF YEARLY SYLLABUS	Analytical thinking, Application	Convert the ingredients of a cake into	Discipline and Diligence

					skills, interpretation skills.	percentage. Converting the shaded fraction of a whole into percentage.	
7	Oct	TERM 2	Chapter-9 Rational Numbers Chapter-10 Practical Geometry	Periodic Test 2	Application skills, computation skills Handling and use of mathematical tools, analytical skill, Recognizing shapes Understanding geometric properties Measuring shapes	Adding rational numbers on number line. Construct a triangle finding with the help of given measurements.	Diversity and Togetherness
8	Nov		Chapter-11 Perimeter and Area		Application skills, analytical thinking	Finding the perimeter and area of a given figure using graph paper. Finding the area of a circle by dividing them into sectors.	Gender sensitivity
9	Dec		Chapter-12 Algebraic Expressions Chapter-13 Exponents and Powers		Understanding symbolic representations, like variables Factoring, simplifying, application skills, analytical skill	Making algebraic expression tree indicating terms and factors. Converting masses of planets in standard form.	Perseverance

10	Jan		<p><u>Chapter-14</u>Symmetry</p> <p><u>Chapter-15</u>Visualising solid shapes</p>		<p>Recognizing shapes</p> <p>Critical observations, analytical thinking, application skills, Understanding geometric properties like symmetry</p>	<p>Draw the line of symmetry of things from everyday life.</p> <p>Punching holes in a color paper to show patterns.</p>	Effective communication
					<p>Critical observations, analytical thinking, Doing shape transformations</p>	<p>Making a 3-D shape just with the help of instructions given by a friend.</p> <p>Making a 3- D shape using square blocks.</p> <p>Clay model of 3- D shapes.</p>	