

SBPDAVC PUBLIC SCHOOL FATEHABAD
Syllabus-Mathematics -2023-24 **Class VIII**
Term 1 (April-September)

	CHAPTER	CONTENT	ACTIVITIES/ Co-curricular Activities
April	2.Cube &Cube roots	Properties of perfect cube numbers,cube root by prime factorisation &guess method	Model of clock showing time by using cube numbers
	3.Exponent &Radicals	Rational numbers as exponents laws of exponents	Laws of exponents by paperfolding.Chart of laws.
	1.Square & Square roots	Properties of Square numbers,Square root by repeated subtraction method,prime factorisation,long division method,& estimation method, Square root of a rational numbers.	Chart of squares ,squares number by triangular numbers. Learning by doing square & square roots
May	Square and Square roots Continued		
	4.Direct & inverse Variation	Problems related to direct &inverse variation	Quiz related to variation.
	5.Profit ,loss & discount	Problems related to profit&loss, discount,GST	Group activity on sale purchase. Visit a mall to collect the information of the flashed discount
July	7.Algebraic Identities	Study of the following identities: $(a + b)^2$ $(a - b)^2$ $(a + b) (a - b)$ $(a+ b+ c)^2$ $(x+ a) (x+b)$ Factorization of algebraic expression based on above Identities.	To verify the identity: $(a+b)^2=a^2+2ab+b^2$ using square pieces& rectangular pieces Spin wheel

<p>July</p>	<p>10.Parallel lines</p>	<p>Properties of parallel lines,distance between parallel lines, division of line segment into equal parts & in given ratio.</p>	
<p>August</p>	<p>13. Introduction to graphs</p>	<p>Cartesian plane , plotting a point on Cartesian plane, Construction of graphs</p>	<p>To show the properties of parallel lines.</p>
	<p>15.Statistics & Probability</p>	<p>Presentation of data, frequency distribution table , grouping of data, graphical method of representing data,pie chart, probability of an event.</p>	<p>To find the position of any student in the classroom by drawing seating plan</p> <p>To collect the data of income of ten families, make a frequency distribution table &draw histogram To find the probabilities of cards,head & tail by coins</p>

Term 2 (October-March)

	CHAPTER	CONTENT	ACTIVITIES/ Co-curricular Activities
October	6.Compound Interest	Compound interest annually, half yearly & quarterly, growth & depreciation.	To find the compound interest annually as well as half yearly of your family income to understand which one is better option. Poster Making Competition.
	8.Polynomials	Polynomial in one variable ,its terms coefficients and degree. Division & verification of a polynomial by a monomial or binomial and also the concept of factors of a polynomial when the remainder is zero.	Base & machine activity of division. To create story problem that would be represented using a polynomial ,
November	9.Linear equation	Equation of the form $ax+b/cx+d = k$ Application of linear equations.	Circle game For this game create a set of index cards with linear equation on one side and the solution to a different equation on other side .
	11.Understanding quadrilateral	Introduction of polygons & its properties.	Angle sum property Flow charts of properties of quadrilateral, Drawing landscape by polygons.
	12.Construction of quadrilateral	Construct a quadrilateral with given condition : When four sides and one diagonal are given, three sides and both	Making a scrap book of objects from our surroundings having

December	6. Rotational Symmetry	<p>diagonals are given , two adjacent sides and three angles are given, three sides and two included angles are given.</p> <p>Rotational symmetry and its order, centre of rotation, angle of rotation</p>	<p>different types of quadrilateral.</p> <p>Make cut outs of alphabets, shapes & find rotational symmetry</p>
	14. Mensuration	<p>Area of trapezium , general quadrilaterals, area & volume of 3-d shapes , visualizing solid shapes, know about polyhedrons, mapping space around us.</p>	<p>Model using 3d object. Mapping of your surrounding by making route maps. Foldable having formula of whole chapter</p>