BHARTIYA VIDYA MANDIR SENIOR SECONDARY SCHOOL

SECTOR-39, CHANDIGARH ROAD,LUDHIANA

SYLLABUS OF CLASS VIII

BOOK: Text book For class VIII NCERT		SUBJECT – MATHEMATICS		SESSION - 2024-2025	
Month	**Unit/Chapter/Topic**	**Learning Objectives**	**Resources/Art-integarted pedagogy tools used/ E-Resources**		**Learning Outcomes/ Skills learnt by students**
APRIL	**Chapter 1 : Rational Numbers**	To improve the skills that how to use four basic operations of rational numbers in day to day life.	Activity related to there are infinite rational numbers between two rational numbers, figure puzzle.	https://epathshala.nic.in/QR/?id=0852CH01	Define of rational numbers and it's standard form. Also properties of rational numbers on four basic operations using patterns.
	Chapter 2:Linear equations in one variable	To solve equations in one variable algebraically. Also how to express real world phenomena algebraically using variable and constants	game based learning with some linear equations.	https://epathshala.nic.in/QR/?id=0852CH02	Knowledge of solution of linear equations in one variable. Application of linear equations to solve real life problems.
MAY	**Chapter 10:Exponents and Powers**	Discovering the rule for solving exponents and writing of large numbers in exponent form.	use of large numbers/Small numbers to express them in scientific notation.	https://epathshala.nic.in/QR/?id=0852CH12	Application of laws of exponents in simplifying expressions. Expressing the given numbers in standard form.
	Chapter 5: Squares and square roots	Application of concept of squares and square roots in real life problems.	learning of square table and verification of properties of squares.	https://epathshala.nic.in/QR/?id=0852CH06	Finding squares and Square roots of numbers using different methods. Identification of perfect squares. properties of square roots. Practical application of square and square roots.
JUNE	**SUMMER VACATION**				
JULY	**Chapter 6: Cubes and Cube roots**	Knowledge of concept of cube and cube root in real life situations.	Hardy-Ramanujan numbers, learning of cube table, cube number pattern.	http://epathshala.nic.in/QR/?id=0852CH07	Knowledge of perfect cubes and cube roots with properties. Practical applications of cubes and cube roots.
	Chapter 4: Data Handling	Understanding of Organisation and presentation of data	Presentation of home task data by pie charts using coloured papers.	http://epathshala.nic.in/QR/?id=0852CH05	Presentation of data in tables, bar graph, histogram and pie charts. Also probability of sure and impossible events.
AUGUST	**Chapter 3: Understanding Quadrilaterals**	knowledge of quadrilaterals and it's properties	polygon family chart, Different shapes puzzles to identify polygons. proof of angle sum property of quadrilateral.	http://epathshala.nic.in/QR/?id=0852CH03	polygon and it's types, convex and concave, regular and irregular polygons, properties of polygons and it's application .
SEPTEMBER	**TERM I EXAMINATION**				

OCTOBER	**Chapter 7: Comparing Quantities**	knowledge of different methods to compare quantities.	Billing Activities including GST/VAT	http://epathshala.nic.in/QR/?id=0852CH08	calculation of ratio, profit /loss, discount, comparison of SI and CI, VAT, GST and their application in real life situations.
	Chapter 13: Introduction to Graph	plotting of coordinates on graph or how to draw points on Cartesian plane.	Drawing of linear graph of body temperature report of a patient of one week.	https://epathshala.nic.in/QR/?id=0852CH15	knowledge of linear graphs, plotting of coordinates, different shapes by joining coordinates
NOVEMBER	**Chapter 8: Algebraic expressions and identities**	Knowledge of verification of identities	problem sums worksheet	http://epathshala.nic.in/QR/?id=0852CH09	Addition, subtraction, multiplication of expressions, use of algebraic identities to find product.
	Chapter 11: Direct and Inverse proportion	Knowledge of how two quantities are related to each other	Real life problems to identify when quantities are related directly.	https://epathshala.nic.in/QR/?id=0852CH13	Direct and inverse proportion
DECEMBER	**Chapter 12: Factorisation**	understanding of different methods to find factors	paper cutting and pasting activityto find factors of different expressions.	https://epathshala.nic.in/QR/?id=0852CH14	HCF, methods to find factors, division of one expression with other
JANUARY	**Chapter 9: Mensuration**	calculation of areas of 2D shapes and areas and volumes of 3D shapes	Making cylinder with paper cutting and finding it's volume and area by measuring it's dimensions.	https://epathshala.nic.in/QR/?id=0852CH11	Areas of polygons like trapezium, parallelogram, rhombus etc and areas and volumes of cubes and cuboid, cylinder
FEBRUARY	**REVISION OF UNIT 2**				
MARCH	**TERM II EXAMINATION**				