ACADEMIC PLANNER 2022 - 2023 Subject : Mathematics Class - VIII

DATE	ΤΟΡΙΟ	SDG COVERED / INTERDISCIPLINA RY VALUE BASED	ACTIVITY
April 1-15th April (10 days)	<u>Ch. 1 – Rational Numbers</u> Concept, properties of addition & multiplication of rational numbers, Rational number on number line, rational numbers between two rational numbers.	Life skills and values	Mini - Sudoku by solving equations
16- 30th April (13 days)	<u>Ch. 2 – Linear Equations</u> Solving equations, Applications, Solving equations with variable on both sides		
May	Ch 2 – Linear Equations		
1-15th May	Reducing equations to simpler forms		
(10 days)	Equations reducible to linear form	SDG Quality education worksheet	Playing with numbers (Magic square)
ших	Ch. 3 Understanding quadrilaterals	1	
Job I 1-15th July	Polygons diagonals convex & conceve polygons		
(12 days)	Regular & irregular polygons Angle sum property		
(12 00) ()	Exterior angles of a polygon, Special types & their properties	SDG zero hunger	To verify angle sum property of
16- 31st July	Ch. 5 – Data Handling	worksheet	a Quadrilateral.
(13 days)	Concepts of Pictograph, bar graph Frequency distribution, Histogram pie chart, chance and probability		
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August 1-15th Aug.	Ch. 6 Squares & square roots Introduction, properties, patterns, Finding square of a number		
(9 days)	square root by repeated subtraction		
	prime factorization method, division method		
	square root of decimals, estimating square roots.	Life skills and values	Finding Squares by Alternate Method.
16 -31st Aug.	Ch. 7 Cubes & cube roots	1	
(13 days)	Introduction, cubes, patterns, prime factors		
	Cube roots by prime factorization		

September	
1-15th Sept.	
(12 days)	Revision for Term 1 examination
16-30th Sept. (13 days)	TERM - 1 EXAMINATION

October	Ch. 9 Algebraic expressions & Identities		
1-15th Oct.	Expressions, terms, factors		
(8 days)	coefficient, types of polynomials, like & unlike terms		$[(a+b)]^2 = a^2$
	Addition & subtraction of expressions		
16 -31st Oct.	Ch. 9 Algebraic expressions & Identities	Life skills and values	To verify the identity
(10 days)	Multiplication, patterns, multiplication of monomials		
	multiplication of monomial with a polynomial		
	Multiplication of a polynomial with a polynomial,		
	Algebraic identities		

November	Ch. 11 - Mensuration		
1-15th Nov. (11 days)	Review, Area of trapezium, quadrilateral, Special quadrilateral, polygon, Surface area (Cube,Cuboid and Cylinder , Volume (cube, cuboid and cylinder)		To derive formula for TSA of a Cuboid.
		SDG clean water and	
16-30th Nov. (13 days)	<u>Ch. 12 Exponents & powers</u> Introduction, negative powers laws of exponents, Scientific notation <u>Ch. 13 – Direct and inverse proportion</u> Direct proportion, Inverse proportion	sanitation worksheet	To explore the relationship between (a) length and perimeter (b) length and area of squares of different dimensions.

December 1-15th December (12 days)	<u>Ch. 14 Factorisation</u> Factors of natural numbers, algebraic expressions method of common factors, regrouping terms Factorisation using identities Division of algebraic expressions. Finding errors	percentage increase	Visualising Solid
16-31st December	Ch. 8 – Comparing Quantities	in population in	Shapes(Verification of Euler's
(14 days)	Concept of ratio and percentage	different years	Formula for polyhedrons)
	Increase and decrease as percent		
	Discount, profit and loss, sales tax, compound interest		
	(only simple problems to be done)		

January 1-15th January	Winter Break		
January 15 -31st January (13 days)	Ch. 4 practical geometry construction of parallelogram, rhombus, square & rectangle		To form Special Quadrilaterals by paper folding. (Kite and Rhombus)

February	
1-15th Feb	Revision for Annual Examiations
(12 days)	
16-28th Feb	Annual Examinations
(11 days)	Annual Examinations

TERMWISE SYLLABUS		
CLASS TEST - 1	CH -1	
CLASS TEST - 2	СН - 2	
TERM-1	СН - 1,2,3,5,6,7	
CLASS TEST - 3	СН - 9	
CLASS TEST - 4	СН - 11	
ANNUAL EXAMINATION	СН -4,9,11,12,13,14	

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