	ACADEMIC PLANNER 2022 - 2023 **Subject : Mathematics** **Class - VII**		
DATE	**TOPIC**	**SDG COVERED / INTERDISCIPLINARY VALUE BASED**	**ACTIVITY**
April 1-15th April (10 days)	**REVISION OF CONCEPTS DONE IN PREVIOUS CLASS** **Ch. 1- Integers** Basics of integers, Properties of Addition & Subtraction,	Value of honesty	To multiply integers using unit square papers.
16- 30th April (13 days)	**Ch. 1- Integers** Closure property,Commutative property, Associative property, Additive identity, Multiplication of integers, Division of integers		
May 1-15th May (10 days)	**Ch. 3- Data Handling** Arithmetic mean, Range, Median, Mode Bar Graph, double bar graph, Chances and Probability	Good health and well being	Practical geometry (To construct special triangles)
JULY 1-15th July (12 days)	**Ch.2- Fractions and Decimals** Addition and subtraction of fractions, Multiplication of fractions, Division of fractions Comparison of decimals, Multiplication & Division of decimal numbers.	SDG No Poverty (worksheet)	To divide fractions using number line
16- 31st July (13 days)	**Ch. 4- Simple Equations** Concept of an equation, Converting statement into an equation Solving an equation- Balancing method & Transposing method, Word problems		
August 1-15th Aug. (9 days)	**Ch. 5- Lines and Angles** Complementary and Supplementary angles, Adjacent angles, Linear pair,Vertically opposite angles, Intersecting lines, Transversal Angles made by a transversal, Transversal of parallel lines	Save water	To verify the relationship between angles made by transversal with parallel lines.
16 -31st Aug. (13 days)	**Ch. 8- Comparing Quantities** Ratio, Equivalent ratios, Percentage- Converting decimal to % and viceversa Converting fraction to % and vice versa Ratios to percents, Increase or Decrease as percent, profit or Loss as a percent,Simple Interest		
September 1-15th Sept. (12 days)	Revision for Term 1 examination		
16-30th Sept. (13 days)	**TERM - 1 EXAMINATION**		

October 1-15th Oct. (8 days)	**Ch. 6- Triangle and its properties** Altitudes and medians of a triangle, Exterior angle property, Angle sum property	SDG Sustainable consumption and production (worksheet0	To verify angle sum property and exterior angle property of a triangle
16 -31st Oct. (10 days)	**Ch. 6 - Triangles and its properties** Special triangles- Equilateral & Isosceles, Inequality property, Pythagoras theorem		

November 1-15th Nov. (11 days)	**Ch. 9- Rational Numbers** Concept, Rational numbers on number line, Standard form,Comparison of rational numbers rational numbers between two rational numbers, Operations on rational numbers	Reduced inequalities	To multiply two rational numbers experimentally.
16-30th Nov. (13 days)	**Ch. 7 Congruence of Triangles** Congruence of plane figures, line segment, angles, Congruence of triangles - concepts Congruence conditions - SSS, SAS, ASA, RHS		

December 1-15th December (12 days)	**Ch. 11- Perimeter and Area** Perimeter and area of square and rectangle, Area of parallelogram, area of triangle, circumference and Area of circle, Areas of rectangular paths, borders.	Value of respecting elders	Symmetry (To observe symmetry in different shapes by paperfolding)
16-31st December (14 days)	**Ch. 12- Algebraic Expressions** Meaning and concept of an expression,Terms of an expression, Factors of a term, Coefficient, Like & Unlike terms, Monomials, Binomials, Trinomials Addition & Subtraction of algebraic expression, Finding the value of an expression, Number patterns,		

January 1-15th January	**Winter Break**		
January 15 -31st January (13 days)	**Ch. 13- Exponents and Powers** Concept of Exponent, Laws of Exponents, Scientific Notation of numbers	SDG Climate action (worksheet)	Visualising Solid Shapes

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

TERMWISE SYLLABUS	
CLASS TEST - 1	**CH - 1**
CLASS TEST - 2	**CH - 3**
TERM-1	**CH - 1,2,3,4,5,8**
CLASS TEST - 3	**CH - 6**
CLASS TEST - 4	**CH - 9**