

ACADEMIC PLANNER 2017 - 2018

Sub : Mathematics

Class - VII

DATE	CONTENT	ASSIGNMENTS / HOMEWORK	ACTIVITY / MODE OF ASSESSMENT
April 1-15th April (8 days)	Ch. 1- Integers Basics of integers, Properties of addition & subtraction of integers – Closure property, Commutative property, associative property, additive identity, multiplication of integers, Division of integers 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	Ex. 1.1 to 1.4 Ex 9.1 , 9.2	Class test + Assignment M.C.Q test
16- 30th April (12 days)	Ch.2- Fractions and Decimals Addition and subtraction of fractions, Multiplication of fractions , Division of fractions. Concept of decimals, Multiplication & Division of decimal numbers	Ex. 2.1 to 2.7	Act 1 - Multiplication of fractions
May 1-15th May (9 days)	Ch. 13- Exponents and Powers Concept of Exponent, Laws of Exponents Scientific Notation of numbers	Ex. 13.1 to 13.3	Assignment
JULY 1-15th July (12 days)	Ch. 8- Comparing Quantities Ratio, Equivalent ratios, Percentage- Converting decimal to % and viceversa	Ex-8.1 , 8.2	Act 2 - Exploring ratio using tangrams

	converting fraction to % and vice versa		
16- 31st July (13 days)	Ch. 8- Comparing Quantities Ratios to percents, Increase or Decrease as percent, profit or Loss as a percent, Simple Interest Revision of UT1	Ex- 8.3	Assignment
August 1-15th Aug. (10 days)	Ch. 5- Lines and Angles Complementary angles, Supplementary angles Adjacent angles, Linear pair, Vertically opposite angles Pairs of lines – Intersecting lines, Transversal; Angles made by a transversal, Transversal of parallel lines	Ex 5.1 , 5.2	Act. 3 - Verification of equality of corresponding angles and alternate interior angles when 2 parallel lines are intersected by a transversal
16 -31st Aug. (14 days)	Ch. 4- Simple Equations Concept of an equation, Converting statement into an equation Solving an equation- Balancing method & Transposing method, Word problems Revision of Half Yearly Exams	Ex 4.1 to 4.4	Class test + Assignment
September 1-15th Sept. (11 days)	Half Yearly Exams		
16-30th Sept. (10 days)	Ch. 14- Symmetry Concept, Symmetry in Regular Polygons, Rotational symmetry Ch. 15- Visualising Solid Shapes Concept, Nets , Isometric sketches	Ex. 14.1 to 14.3 Ex. 15.1 to 15.4	Act.4 - Visualising solid shapes

	Viewing different sections & different views of a solid		through isometric dot paper
October 1-15th Oct. (9 days)	Ch. 6- Triangle and its properties Concept of altitudes and medians of a triangle, Exterior angle property, Angle sum property Special triangles- Equilateral & Isosceles Inequality property, Pythagoras theorem	Ex 6.1 to 6.5	Act 5 -Verifying angle sum property of a triangle Act 6 - Verifying exterior angle property of a triangle
16 -31st Oct. (11 days)	Ch. 7- Congruence of triangles Congruence of plane figures, line segments, angles, congruence of triangles- concept, congruence conditions- SSS, SAS, ASA, RHS	Ex 7.1 , 7.2	Act 7- Exploring congruency using tangrams
November 1-15th Nov. (11 days)	Ch. 11- Perimeter and Area Perimeter and area of squares and rectangles Area of parallelogram, area of triangle, Circumference of circle , Area of circle Areas of rectangular paths	Ex 11.1 to 11.4	Act 8 - Estimating the area of a circle
16-30th Nov. (13 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 expressions Finding value of an expression Revision for Assessment test	Ex 12.1 to 12.4	Vocabulary cards
December 1-15th December	ASSESSMENT TEST		

(11 days)			
16-31st December (12 days)	Ch. 10- Practical Geometry Construction of Parallel lines Construction of Triangles- SSS, SAS ASA & RHS criterion	Ex 10.1 to 10.5	Act 9 - nets of platonic solids eg. tetrahedron , octahedron
January 1- 15th January (1 day)	Ch. 3- Data Handling Introduction		
16 -31st January (13 days)	Ch. 3- Data Handling Arithmetic mean, Range, Median, Mode Bar Graph, concept of Probability	Ex. 3.1 to 3.4	Objective test
February 1 - 15th feb. (11 days)	Revision for annual exams		
16 - 28th Feb.	Annual exams		

TERMWISE SYLLABUS
Unit Test 1 : Ch- 1 , 2 , 9 , 13
Half Yearly : Ch- 1 , 2 , 4 , 5 , 8 , 9 , 13
Assessment Test : Ch- 6 , 7 , 14 , 15
Annual Exam : Ch- 3 , 4 , 6 , 7 , 10 , 11 , 12 , 13 , 14 , 15