

ACADEMIC PLANNER 2017 - 2018

Sub : Mathematics

Class - VIII

DATE	CONTENT	ASSIGNMENTS / HOMEWORK	ACTIVITY / MODE OF ASSESSMENT
April 1-15th April (8 days)	Ch. 1 – Rational numbers Concept, properties of addition & multiplication of rational numbers Rational number on number line, rational numbers between two rational numbers	EX - 1.1 - 1.2	Class test + assignment
16- 30th April (12 days)	Ch. 13 – Direct and inverse proportion Direct proportion, Inverse proportion Ch. 15 Introduction to graphs Bar graphs – single & double Pie graph, histogram, line graph linear graphs, co-ordinates, some applications	Ex - 13.1 - 13.2 Ex 15.1 - 15.3	M.C.Q. Test
May 1-15th May (9 days)	Ch. 2 – Linear Equations Solving equations, Applications, Solving equations with variable on both sides More applications Reducing equations to simpler forms Equations reducible to linear form	Ex - 2.1 - 2.6	Assignment
JULY	Ch. 8 – Comparing Quantities		

1-15th July (12 days)	Concept of ratio and percentage Increase and decrease as percent Discount, profit and loss, sales tax Compound interest compounded annually and semi annually	Ex 8.1 - 8.3	Act 1 - Comparison of SI & CI for a given data using graphs.
16- 31st July (13 days)	Ch. 6 Squares & square roots Introduction, properties, patterns Finding square of a number square root by repeated subtraction prime factorization method division method Revision of UT1	Ex 6.1 - 6.4	Act 2 - Finding Square of a number by alternate method
August 1-15th Aug. (10 days)	Ch. 7 Cubes & cube roots Introduction, cubes, patterns, prime factors Cube roots by prime factorization Ch. 12 Exponents & powers Introduction, negative powers laws of exponents, Scientific notation	Ex 7.1 - 7.2	Test + Assignment
16 -31st Aug. (14 days)	Ch. 10 Visualising solid shapes Introduction , views of 3D- Shapes , mapping space around us Faces , vertices and edges Ch. 16 Playing with numbers General form of numbers , games with numbers letters for digits , tests of divisibility Revision of Half Yearly Exams	Ex 10.1 - 10.3 Ex 16.1 - 16.2	Act 3- To draw front view, top view & side view of 3-D shapes Objective test

September 1-15th Sept. (11 days)	Half Yearly Exams		
16-30th Sept. (10 days)	Ch. 11 - Mensuration Review, Area of trapezium, quadrilateral, Special quadrilateral, polygon	Ex - 11.1 , 11.2	Class test
October 1-15th Oct. (9 days)	Ch. 11 - Mensuration Surface areas of cube, cuboid and cylinder Volume of cube, cuboid and cylinder	Ex - 11.3 , 11.4	Act 4- To verify the formula for finding the curved surface area of the cylinder.
16 -31st Oct. (11 days)	Ch. 9 Algebraic expressions & Identities Expressions, terms, factors coefficient, types of polynomials, like & unlike terms Addition & subtraction of expressions Multiplication, patterns, multiplication of monomials multiplication of monomial with a polynomial	Ex- 9.1 - 9.3	Vocabulary cards
November 1-15th Nov. (11 days)	Ch. 9 Algebraic expressions & Identities Multiplication of a polynomial with a polynomial. Algebraic identities	Ex- 9.5 , 9.6	Act 5- Verification of algebraic identities
16-30th Nov. (13 days)	Ch. 5 – Data Handling Concepts of Pictograph, bar graph Frequency distribution, Histogram pie chart, chance and probability Revision for Assessment test	Ex. 5.1 to 5.3	Assignment
December 1-15th December	ASSESSMENT TEST		

(11 days)			
16-31st December (12 days)	Ch. 14 Factorisation Factors of natural numbers, algebraic expressions method of common factors, regrouping terms Factorisation using identities Division of algebraic expressions Finding errors	Ex - 14.1 - 14.4	Act 6 - Nets of platonic solids eg. tetrahedron , octahedron
January 1- 15th January (1 day)	Ch. 3 Understanding quadrilaterals Introduction		
16 -31st January (13 days)	Ch. 3 Understanding quadrilaterals Special types of quadrilaterals & their properties Ch. 4 practical geometry Construction of quadrilaterals- four sides & given Two adjacent sides & three angles given	Ex 3.1 - 3.4 Ex - 4.1 - 4.5	Act 7- Formation of quadrilaterals using set square and exploring their properties
February 1 - 15th feb. (11 days)	Revision for annual exams		
16 - 28th Feb.	Annual exams		

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

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