Syllabus of Term-I Session 2021-22

Class VIII **Subject: Mathematics** **Name of Teacher:-Neelam Sharma & K.K.Pathak**

Month	No. of Teaching Days	Topic	Sub-Topic	Oral	Written	ctivity /Project /Practic	Revision Test
April	14	Chapter1 Rational Numbers	• Properties of rational numbers • Representation of rational numbers on a number line • Word problems	Operations with fractions	Recap Exercise ,Ex 1.1,1.2,1.3, 1.4 & mental Maths	Activity: "To Understand the concept of addition of rational numbers with different denominator."	After completion of the chapter Class Test will be conducted.
	SUMMER BREAK FROM 22 APRIL TO 9th JUNE						
JUNE	17	Chapter 2 Exponents or Powers	• Laws of exponents • Negative exponents • Laws of exponents with integral powers • Scientific notation	Powers & laws	Recap Ex ,2.1 & Mental Maths	Activity: "To Understand the Law of Exponent."	After completion of the chapter Class Test will be conducted.
		Chapter 3 Square and Square Root; Cube and Cube Root	• Squares • Square roots • Square root of the product of two numbers and fractional numbers • Approximate square roots • Cubes • Cube roots • Estimating square roots and cube roots	Squares	Recap Exercise ,Ex 3.1,3.2,3.3, 3.4 ,3.5 3.6 & mental Maths		After completion of the chapter Class Test will be conducted.
JULY	25	First Perodic test from 12th July to 18th July Revision work					
		To continue with chapter cube & cuberoots					
		Chapter 9 Quadrilaterals	• Classification of quadrilaterals • Properties of a parallelogram • Properties of a rectangle • Properties of a rhombus • Properties of a square	Types of Quadrilaterals	Recap Exercise ,Ex 9.1,9.2 & mental Maths	Activity : " To verify that the sum of measures of all interior ang	After completion of the chapter Class Test will be conducted.
		Chapter 10 Construction Of Quadrilaterals	• Steps of construction	Properties of Quadrilaterals	,Ex 10.1,10.2,10.3 & mental Maths		After completion of the chapter Class Test will be conducted.
Aug		Chapter 4 Playing with Numbers	• Numbers in general form • Patterns in numbers • Coding and decoding • Magic Squares • Numbers and puzzle games • Divisibility of numbers	Divisibility rules	Ex 4.1,4.2 & mental Maths		After completion of the chapter Class Test will be conducted.
Aug		Chapter11 Area of polygon	• Area of a quadrilaterals • Area of a trapezium • Area of a rhombus	Areas of triangle, rectangle ,square etc	Ex 11.1,11.2 & mental Maths	Activity: "To find the area of the trapezium using triangles."	After completion of the chapter Class Test will be conducted.
August	23	Chapter 12 Volume and Surface Area	• Introduction • Units of volume • Volume of a cuboid and a cube • Volume of a right circular cylinder • Surface area of a cuboid and a cube • Curved surface area of a right circular cylinder • Total surface area of a right circular cylinder	Formulas	Ex 12.1,12.2,12.3, 12.4 & mental Maths	Activity: "to find the volume of a cuboidal box using cubes."	After completion of the chapter Class Test will be conducted.
August		Chapter 5 Algebraic Expressions and Factorization	• Multiplication of algebraic expressions • Division of polynomials • Identities • Factorization	Algebric Expressions and its type	Recap Exercise ,Ex 5.1,5.2,5.3,5.4 & mental Maths	Activity: "To determine geometrically the factors of polynomial by splitting middle term."	After completion of the chapter Class Test will be conducted.

Month		Chapter	Topics			Activity	
September	25	Revision Work for Term 1 Exam			Revision WorkSheets		
October	21	Chapter 6 Linear Equation in One Variable	• Introduction • Word Problems	Simple equations Solutions	Recap Exercise ,Ex 6.1,6.2& mental Maths	Activity: " To understand the balancing of an equation."	After completion of the chapter Class Test will be conducted.
October		Chapter 7 Commercial Mathematics	• Variations • Application of percentage • Profit and loss • Discount and taxes	Percentage and its uses	Ex 7.1,7.2,7.3,7.4, 7.5 & mental Maths	activity : " To understand the concept of direct & inverse variation through activity."	After completion of the chapter Class Test will be conducted.
November	19	Chapter 13 Probability	• Introduction • Probability of an event	Examples from day to day life	Recap Exercise ,Ex 13.1, 13.2 & mental Maths	Activity : "To understand the concept of Probability."	After completion of the chapter Class Test will be conducted.
November		Chapter 14 Data Handling	• Introduction • Reading a bar graph • Grouped data • Histograms • Pie Chart	Data ,pictograph bar graph	Ex 14.1, 14.2 & mental Maths		After completion of the chapter Class Test will be conducted.
December	25	Chapter 8 Simple Interest and Compound Interest	• Compound interest formula • Inverse problems on compound interest • Growth and depreciation	Simple interest	Recap Exercise,Ex 8.1,8.2,8.3,8.4 & mental Maths		After completion of the chapter Class Test will be conducted.
December		Chapter 15 Representing 3D in 2D	• Introduction • Nested solids • Views of 3D shapes • Mapping space around us • Two-Dimensional (2D) Representational of 3D objects	Examples of 2D & 3D fiqures	Ex 15.1 & mental Maths	Activity : " To draw Solid Shapes on an isometric dotted paper."	After completion of the chapter Class Test will be conducted.
January	17	Chapter 16 Introduction to Graphs	• Introduction • Number line • Cartesian plane • Linear graph	Number line & Integers	Ex 16.1,16.2 & Mental Maths	Activity : " To review the method of plotting points in Cartesian plane."	After completion of the chapter Class Test will be conducted.
February	23	Revision Work for Term 2 Exam			Revision WorkSheets		
March	24	Annual Exam			Pen & Paper Exam		