RUBY PARK PUBLIC SCHOOL

SYLLABUS FOR THE ACADEMIC SESSION 2022-23

Subject – Mathematics

CLASS – VI

Month	Unit	Topic	Sub-Topic
April	1	Knowing Our Numbers	• Indian and International numeration • Estimation • Roman numerals
	2	Whole Numbers	• The Number Line • Properties of whole numbers • Pattern in Whole numbers • Simplification (with brackets) BODMAS rule
	3	Playing With Numbers	• Factors and multiples • Prime and Composite numbers • Test of divisibility by 7 & 11 • Prime Factorization • HCF and LCM • Square root by prime factorization
Pre-Mid Term Examination			
May	4	Basic Geometrical Ideas	• Point, line, line- segment, ray, curves, intersecting lines, perpendicular lines, concurrent lines, collinear points, parallel lines, angles , triangles, polygons, circles (concept).
June	5	Understanding Elementary Shapes	• Measuring line segments, angles, classification of triangles, quadrilaterals, polygons and 3-dimensional shapes
July	6	Integers	• Representation of integers on a number line • Comparing integers, ordering of integers • Addition and subtraction of integers
	7	Fractions	• Fractions on a number line • Types of Fractions • Equivalent Fractions, Simplest form of fraction • Comparing like and unlike fractions • Addition, subtraction, multiplication and division of fractions

Month		Topic	Contents
August	8	Decimals	• Place value chart • Representing decimal on a number line • Comparing decimal Length, mass, capacity and money • Addition, subtraction, multiplication and division of decimals • Word Problems on addition and subtraction of decimals
	9	Data Handling	• Recording of data • Organizing data, tally marks • Pictograph- Interpretation and drawing • Bar graph-Interpretation and drawing
	10	Symmetry	• Figures with two lines of symmetry • Figures with multiple lines of symmetry • Alphabets with lines of symmetry • Reflection and symmetry
Half-Yearly Examination			
September	11	Algebra	• Algebraic expressions • Concept of a variable and constant • The use of variables in common rules • Forming expressions with variables • Like and unlike terms, coefficients, monomials, binomials and polynomials • Addition and subtraction of algebraic expressions • Using expressions practically, Linear equations • Concept: What is an equation • Forming equation • Solving equation and word problems
October	12	Mensuration	• Perimeter of triangle, square, rectangle and other regular and irregular shapes. • Area of irregular shapes • Area of squares and rectangles • Real life applications
Post-Mid Term Examination			
November	13	Ratio, Proportion And Unitary Method	• Concept of ratio • Concept of proportion • Application of unitary method
December & January	14	Practical Geometry	• Construction of a circle, line-segment, copy of line segment • Construction of angles using compasses • Copy of an angle, Angle bisector • Construction of Perpendiculars • Construction of Perpendicular Bisector of a line segment
Revision			
February	Annual Examination		