

RUBY PARK PUBLIC SCHOOL

SYLLABUS FOR THE ACADEMIC SESSION 2022-23

Subject - Mathematics

CLASS - VII

Unit Month Topic Sub - Topic Activity 1 **Properties of Integers** Integers Types of fractions Comparing fractions Addition, Subtraction, Multiplication and Division of fractions Fractions and 2 **Comparing decimals** Decimals Conversion of decimal into fraction April and vice-versa Addition, Subtraction, Multiplication and Division of decimals Concept Drawing a Double Mean, Mode, Median Bar Graph For a 3 Data Handling Double Bar Graph Given Data Chance and Probability

Syllabus for Pre Mid-Term Examination (Unit 1, 2, 3)

May	4	Algebraic Expressions	Concept	
			Addition	
			Subtraction	
			Multiplication (monomials by monomials, monomials)	
			Division (by monomials)	
			Simplifications	

		Algebraic Expressions	Concept	
		(Continued)	Addition	
lupo	1		Subtraction	
June			Multiplication (monomials by monomials, monomials)	
			Division (by monomials)	
			Simplifications	
	5	Simple Equations	Solving equation by different methods	
			Word Problems	
July	6	Lines and Angles	Supplementary and Complementary angles, Adjacent angles, Linear pair of angles, and Vertically Opposite angles.	Verification of Properties of Parallel Lines with the help of Tracing Paper
			Concept of Transversal and related angles	
	7	Square root	Square root by Prime- factorisation and Division method of whole numbers and decimals.	
	8	Triangles and Its Properties	Angle sum property	
			Exterior Angle property	
July			Triangle Inequality property	
			Pythagoras Theorem	
	9	Congruence	Criteria of congruence of triangles and its applications	
August	10	Pational numbers	Standard form	
	10	Rational numbers	Four operations	
Syllabus for	Half-Yea	rly Examination (Unit	1, 2, 3, 4, 5, 6, 7, 8, 9)	
September		Comparing Quantities	Ratio and Proportion	
	11		Percentage	
	2 3		Simple Interest	
			Profit and Loss	
			Construction of parallel Lines	
October	12	Practical Geometry	Construction of Different types of Triangles	
	13	Symmetry	Line symmetry, Reflection and Rotational Symmetry, Order of Rotational Symmetry.	
Syllabus for	Post Mic	d-Term Examination(l	Jnit 10, 11, 12, 13)	
November	14	Mensuration	Perimeter and area of square and rectangles	Pythagoras Theorem
			Area of four walls of a room	
			Perimeter and area of triangles (only	

			half × base × height) and parallelogram.	
December & January	15	Exponents	Concepts	
			Laws of exponents	
			Simplifications	
			Standard form	
	16 Visualising So Shapes	Visualising Solid	Faces, Edges and Vertices of solid figures	Nets of Solid
		Shapes	Net Diagram	Shapes
January	Revision			
February	Syllabus for Annual Examination (Unit 10, 11, 12, 13, 14, 15, 16 and 4, 5)			

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