

Subject : Math
 Grade : VII
 Year : 2019-20



Year Planner - Text book used: Wow Maths –Revised Edition by Eupheus Learning

Month & No. of Teaching Days	Units	Sub- Units	Objectives	Activities Planned	Assessment / Recap
March/April 15 days	Chapter-1 Integers Chapter- 17 Reflective and Rotational Symmetry	*Addition & Subtraction of integers. *Multiplication & Division of Integers. *Absolute value *Properties of integers. *Simplification of expression *Translation symmetry *Reflection symmetry *Rotation symmetry	*To revise the concept of integers, operations on integers under addition, multiplication & division. * To revise the difference between order of rotation and angle of rotation.	*Integers-To build the concept of distributive property of multiplication over addition and subtraction.	Worksheet-1(Run Through Page No:25)
June 16 days	Chapter-2 Fractions	*Multiplication of fractions *Reciprocal of fractions *Mixed operations	*To identify different types of fractions and multiplication of fractions and understand mixed operations on fractions.	To build the concepts of Multiplication of Fractions by Paper Folding.	Worksheet-2(Run Through Page No:47, Page No:83) WorkSheet-3 Slip Test1 and 2
	Chapter-4 Decimals	*Multiplication of decimal numbers. *Division of decimal numbers. Metric units of measures.	*To convert metric units of measurements from higher to lower & lower to higher units of measurement.	*To multiply 2 decimals by Paper Folding method Activity on fractions – Page 49	
July 24 days	Chapter-3 Rational numbers	*Representing rational numbers on a number line. * Arithmetic operations on rational numbers.	*To identify and compare rational numbers	* To Find the sum of two Rational numbers	Worksheet-4(Run Through Page No:65,Page No:96) Worksheet-5

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		*Representing rational numbers as decimals.			PT-I: Chapter-1 Integers Chapter-2 Fractions
	Chapter-5 Exponents	*Laws of exponents *Decimal number system *Comparing large no's	*To express large numbers in exponential form.	*To find the Relationship between angles made by Parallel Lines and Transversal	
	Chapter-13 Lines and Angles	*Types of angles. *Transversals *Parallel lines	*To understand the different types of angles.		
August 22 days	Chapter-6 Algebraic Expressions	*Addition & Subtraction *Number patterns	* To understand the terms - variable, constant, numerical expression & algebraic expression.		Worksheet-6(Run Through Page No:203,Page No:117,Page No:134)
	Chapter-7 Linear Equations	*Linear Equations *Finding the roots or solution of a linear equation	*To know what a linear equation is, what is meant by root of the equation and how to find the root of an equation.		Worksheet-7 Slip Test 3 and 4
	Chapter -18 Visualizing Solid Shapes	Net of a 3D figure		*To draw a 3 x 3 cube on an isometric paper.	
September 7 days	Revision	-----	-----	-----	Revision Worksheet-1 Half –Yearly Exam: Chapters- 1, 2,3,4,5,6,7,13,17,18
October 17 days	Chapter-8 Ratio and Proportion	*Unitary method *Ratio of given numbers *Conversion of fractions and Ratios into percentages.	*To understand the concepts of ratio and to find ratios. To understand what Simple Interest is and	To explore the concept of Inverse Proportion by Paper folding activity	Worksheet-8(Run Through Page No:150,Page No:161)

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	<p>Ch9 Average, Speed, distance and time.</p> <p>Chapter-10 Percentages</p>	<p>Speed Distance Time Average</p> <p>*Percentages into fractions and decimals.</p>	<p>where it is used. What is profit and loss and its application.</p> <p>To understand the difference between speed, distance and time and apply them in real life scenarios. To find averages.</p> <p>*To understand the concepts of conversion of fractions & decimals into percentages.</p>		<p>Worksheet-9</p> <p>Slip Test 5.</p>
November 24 days	Chapter-14 Triangles and its properties	<p>*Median & Altitude *Properties of triangle *Pythagoras theorem</p>	*To verify properties of triangles	*Lab Activity on Angle sum property of triangles	Worksheet -10(Run Through Page No:221,Page No:235,Page No:183)
	Chapter-15 Congruence of triangles	<p>Congruence Rules *SSS *ASA *RHS *SAS</p>	*To state and verify the properties of congruency.	*Lab Activity on Medians of a triangle are concurrent	
	Chapter -11 Profit and loss	*Profit, *Loss *Profit%, Loss%	To enable students understand the terms : CP, SP, profit , loss ,profit% and loss%		

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December 20 days	Chapter-16 Construction	*Geometrical shapes *Triangles	*To enable them to identify, congruent objects have same shape & size congruency.		Worksheet-12(Run Through Page No;246,Page No:288) WorkSheet-13
	Chapter-19 Perimeter and Area	*Perimeter & and area of plane figures	*To calculate area and perimeter of plane figures.	*Math lab Activity on Areas of Circles	
January 20 days	Chapter-20 Data Handling Chapter 12: Simple Interest	*Bar graphs * probability *Principal *Time *Rate *Interest *Amount	*To collect, organise and represent data * To understand how interest works on the principal taken	* Math Lab Activity to find Mean , Median and Mode	Work sheet-14(Run Through Page No:304) Worksheet-15 <u>PT-III:</u> Chapter14: Triangles and its Properties Chapter-16 Construction. Chapter-11 Profit and loss
February 16 days	Chapter 21: Probability Revision Annual Exam	*Range *Mean *Median *Mode *Probability	*To understand the terms experiment, outcome, event, probability	-----	Revision Worksheet-2 <u>Annual Examination Portion:</u> Chapters:6,7,8,9,10,11,12,14,15,16,19,20,21