Class VII

SYLLABUS OVERVIEW

SUBJECT: MATHEMATICS-A
<mark>Teacher: Sir KN</mark>

Chapter No.	Name of the Chapter	Marks
	TERM-I	
1	Integers	10
2	Fractions And Decimals	10
4	Simple Equations	20
	Total	**40**
	TERM-II	
7	Comparing Quantities	14
8	Rational Numbers	8
10	Algebraic Expressions	10
11	Exponents And Powers	8
	Total	**40**

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects/Practical experiment to be held/Specific Assessment Tools(s)
April-June	21	9	CHAPTER- 1. INTEGERS: • Properties of Addition and Subtraction of Integers • Multiplication of Integers • Properties of Multiplication of Integers • Division of Integers • Case Based Problems	**Subject Enrichment Activity-1:** To Verify Commutative Property of Integers.
		12	CHAPTER- 2. FRACTION AND DECIMALS: • Multiplication of Fractions • Division of Fractions • Multiplication of Decimal Numbers • Multiplication of Decimal Numbers by 10, 100 and 1000 • Division of Decimal Numbers Case Based Problems	**Subject Enrichment Activity-2:** Multiplication of fractional Numbers. **Maintain Portfolio Multiple Assessment:** Oral/Test

July-August	15	15	CHAPTER- 4. SIMPLE EQUATIONS: • A Mind-Reading Game • Setting up of an Equation • Review of what we know • What is an Equation? • Solving an Equation • Application of Simple Equations to Practical Situations • Case Based Problems **REVISION**	**Subject Enrichment Activity-3:** Formulation of an Equation **Maintain Portfolio Multiple Assessment:** Oral/Test
Sep-Nov	27	15	CHAPTER- 7. COMPARING QUANTITIES • Percentage-Another way of Comparing Quantities • Use of Percentages • Prices Related to an Item of Buying and Selling • Profit or loss as a Percentage • Charge given on Borrowed Money of Simple Interest • Interest for Multiple Years • Case Based Questions	**Subject Enrichment Activity-4:** To find out SP, CP, Profit and Loss
		12	CHAPTER-8. RATIONAL NUMBERS • Introduction • Need for Rational Numbers • What are Rational Numbers? • Positive and Negative Rational Numbers • Rational Numbers on a Number Line • Rational Numbers in Standard Form • Comparison of Rational Numbers • Rational Numbers between two Rational Numbers • Operations on Rational Numbers • Case Based Question	**Maintain Portfolio Multiple Assessment:** Oral/Test/Quiz
Dec-Feb	21	12	CHAPTER-10. ALGEBRAIC EXPRESSIONS • Introduction • How are Expressions Formed • Terms of an Expressions • Like and Unlike Terms • Monomials,Binomials,Trinomials and Ploynomials • Finding the Value of an Expression • Case Based Questions	**Subject Enrichment Activity-5:** To find out the missing values in equations and understanding patterns.
		09	CHAPTER-11. EXPONENTS AND POWERS • Introduction • Exponents • Law of Exponents • Miscellaneous Examples using The Laws of Exponents • Expressing Large Numbers in the Standard Form. • Case Based Questions	**Maintain Portfolio Multiple Assessment:** Oral/Test/Quiz

SYLLABUS OVERVIEW

SUBJECT: MATHEMATICS-B
Teacher: Miss LG

Chapter No.	Name of the Chapter	Marks
	TERM-I	
1	Data handling	10
2	Lines and angles	8
5	The triangle and its properties	22
	Total	**40**
	TERM-II	
6	Perimeter And Area	15
8	Symmetry	10
10	Visualizing Solid Shapes	15
	Total	**40**

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects/Practical experiment to be held/Specific Assessment Tools(s)
April-June	27	12 15	**CHAPTER – 03: DATA HANDLING** ▫ Introduction ▫ Mean, Range, Median, Mode of ungrouped data ▫ Frequency distribution table using tally marks ▫ Constructing bar graph and double bar graph **CHAPTER – 05: LINES AND ANGLES** ▫ Introduction ▫ Types of angles ▫ Complementary and supplementary angles ▫ Properties of parallel lines with transversal	<u>Subject Enrichment Activity-1:</u> • To collect data and represent this through bar and double bar graph <u>Subject Enrichment Activity-2:</u> • Verify vertically opposite angles are equal using protractor • Model of parallel lines and transversal <u>Maintain Portfolio Multiple Assessment:</u> Oral / Test / Quiz
July-August	20	22	**CHAPTER – 06: THE TRIANGLE AND ITS PROPERTIES** ▫ Introduction ▫ Recall types of triangles ▫ Medians and altitudes of a triangle ▫ Exterior angle property ▫ Angle sum property ▫ Triangle inequality theorem Right-angled triangle and Pythagoras theorem	<u>Subject Enrichment Activity-3:</u> Verify the Pythagoras Theorem using paper cutting and pasting <u>Maintain Portfolio Multiple Assessment:</u> Oral / Test / Quiz

September-November	18	18	CHAPTER – 09: PERIMETER AND AREA ☐ Area of parallelogram ☐ Area of a triangle ☐ Area of a circle ☐ Circumference of a circle	<u>Subject Enrichment Activity-4:</u> Exploring perimeter and area of 2D shapes <u>Maintain Portfolio Multiple Assessment:</u> Oral / Test / Quiz
December-February	12	12	CHAPTER – 13: VISUALISING SOLID SHAPES ☐ Introduction ☐ Plane figures and solid shapes ☐ Nets for building 3D shapes ☐ Drawing solids on flat surface (oblique and isometric sketches) ☐ Visualizing solid objects ☐ Viewing different sections of solid (front, side, top view)	<u>Subject Enrichment Activity-5:</u> Understand and visualize 3D shapes by building paper model (NET) <u>Maintain Portfolio Multiple Assessment:</u> Oral / Test / Quiz