Class VI

SYLLABUS OVERVIEW

SUBJECT: MATHEMATICS-A
Teacher: Miss LG

Chapter No.	Name of the Chapter	Marks
Term-I		
01	Patterns in mathematics	8
03	Number play	10
05	Prime number	22
	TOTAL	40
Term-II		
07	Fractions	15
10	The other side of zero	25
	TOTAL	40

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects/Practical experiment to be held/Specific Assessment Tools(s)
April-June (PT-I)	12	12	**CHAPTER – 1: PATTERNS IN MATHEMATICS** - What is Mathematics? - Patterns in Numbers - Visualizing Number Sequences - Relations among number sequences - Patterns in Shapes - Shape sequences related to Number sequences **CHAPTER – 3: NUMBER PLAY** - Supercells - Number Line - Digit Sums of Numbers - Palindromic Patterns - Magic Number of Kaprekar - Clock and Calendars - Mental Math - The Collatz Conjecture	**Subject Enrichment Activity – 1** To find the relationship between successive numbers of a pattern in Triangular Numbers **Subject Enrichment Activity – 2** Place value and rounding off using number cards **Maintain Portfolio: Multiple Assessments** – Oral/Test/Quiz

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects /Practical experiment to be held/Specific Assessment Tools(s)
			- Simple Estimation Games and Winning Strategies	
July-Aug (Half Yearly)	20	20	**CHAPTER – 5: PRIME TIME** - Factors and Multiples - Perfect Numbers - Prime Numbers - Co-prime and Twin Prime - Prime Factorization - Divisibility Test - Special Numbers Prime Puzzle	**Subject Enrichment Activity – 3** Identify prime and composite numbers using Numbered Chart **Maintain Portolio: Multiple Assessments** – Oral/Test/Quiz

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects /Practical experiment to be held/Specific Assessment Tools(s)
Sep-Nov (PT-II)	18	18	**CHAPTER – 7: FRACTIONS** - Fractional unit and equal shares - Fractional units as a part of a whole - Measuring using fractional units - Fraction length on a number line - Mixed fractions - Equivalent fractions - Comparing fractions - Addition and subtraction of fractions Puzzle	**Subject Enrichment Activity – 4** To find equivalent fractions using colour paper **Maintain Portfolio Multiple Assessments** – Oral/Test/Quiz
Jan-Feb (Yearly)	18	18	**CHAPTER – 10: THE OTHER SIDE OF ZERO** - Integers - Adding and subtracting larger numbers - Adding, subtracting and grouping any numbers - Integers on a number line - Covering subtraction to addition and vice versa - Token model of addition and subtraction - Geographical cross sections - Temperature Integers' Grid	**Subject Enrichment Activity – 5** Exploring integer addition and subtraction using colour counters **Maintain Portfolio: Multiple Assessments** – Oral/Test/Quiz

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SYLLABUS OVERVIEW

SUBJECT: MATHEMATICS-B
Teacher:Miss LC

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Chapter No.	Name of the Chapter	Marks
	Term-I	
2	Lines and Angles	15
9	Symmetry	10
8	Playing with Construction	15
	TOTAL	40
	Term-II	
6	Perimeter and Area	20
4	Data Handling and Presentation	20
	TOTAL	40

Month	No. of Days	No. of Periods	Lesson/Unit	Activities/Projects/Practical experiment to be held/Specific Assessment Tools(s)
April-May	30	18	**Chapter: LINES AND ANGLES** • Introduction • Lines, line segment and rays • Identify and naming of angles • Types: Acute, obtuse, right and straight • Measuring and identifying different types of angles • Construction of angles	**Subject Enrichment Activity** Activity 1: Arms representation of line, line segment and rays Activity 2: Making our own protractor **Maintain Portfolio** **Multiple Assessment:** Quiz / Worksheet / Class Test / Oral Test
June	12	06	**Chapter: SYMMETRY** • Introduction • Drawing and identifying lines of symmetry • Rotational symmetry	**Subject Enrichment Activity** Construction of rectangular photo frame **Maintain Portfolio** **Multiple Assessment:** Quiz / Presentation / Worksheet / Oral Test

Month			Chapter	Subject Enrichment / Assessment
July – August	40	22	**Chapter: PLAYING WITH CONSTRUCTION** • Introduction • Identifying tools and instruments used • Construction of circles based on radius, diameter • Concentric circles • Pattern-based figure • Properties of rectangles • Construction of rectangles when sides and angles are given • Construction of rectangles when diagonal is given • Properties of square • Construction of squares when sides are given • Construction of square when diagonal is given	**Subject Enrichment Activity:** Activity 1: Construction of and exploring of square Activity 2: Making of photo frame in the form of a rectangle using properties **Maintain Portfolio Multiple Assessment:** Quiz / Oral test / Worksheet / Class test / Discussion / Presentation
October-November	35	21	**Chapter: PERIMETER AND AREA** • Introduction • Different types of shapes • Perimeter of rectangle, square and triangle • Perimeter of regular polygon • Area formula • Area of rectangle, square and triangle • Area maze puzzles	**Subject Enrichment Activity:** Perimeter and area using graph paper **Maintain Portfolio MultipleAssessment:** Quiz / Oral test / Worksheet / Class test / Discussion / Presentation
January-February	26	18	**Chapter: DATA HANDLING AND PRESENTATION** • Introduction • Collection and organizing data • Tabulation of data • Representation of data in pictograph and bar graph	**Subject Enrichment Activity:** Study and collection of favourite colours **Maintain Portfolio Multiple Assessment:** Quiz / Oral test / Worksheet / Class test / Discussion / Presentation