CLASS	IV
CHAPTER	Addition& Subtraction
LEARNING OBJECTIVES	• To enable the students to know about addition and subtraction • To aware them about addition and subtraction Of 6-digit numbers. • To sharpen skills in addition and subtraction • To make students understand the word problems related to daily life situations. • Developing skill of correct calculation • To enhance the mental ability of the students.
P.K. TESTING	Q. Simple question based on properties addition and subtraction will be used i. 904+ 22 = ——— ii. 845-1 = ——— iii. 98 - ___ = 45
VOCABULARY USED	• Properties • Carry over • borrow
IMPORTANT SPELLING	• Addends • Sum • Subtract

	• Subtrahend • Minuend • Difference • Altogether • Total
INNOVATIVE METHODS	• Smart board • Examples from daily life • Online reference material
PROCEDURE	Introduction aboutaddition and subtraction • additionand subtraction of 6-digit number • Add 5 and 6 digit number with carry over • Subtract 5 and 6 digits number without and with borrow • Word problem of Addition and Subtraction • Properties of Addition and Subtraction Introduction: The topic will be given by the teacher with the help of sums of with carry and without carry with the help of example Find the sum 8 5 3 2 + 1 3 4 6 6 9 0 8 - 4 8 0 9

STUDENT'S PARTICIPATION	Student will be asked to solve the puzzles based on Addition and Subtraction
RECAPITULATION	To check the concept ofAddition and Subtraction teacher will give them worksheet to solve

LEARNING OUTCOME	• Students will be able to add and subtract 6-digits numbers. • Students will easily solve the additionand subtraction of three numbers and word problems.
ASSESSMENTS	Student will be asked multiple choice question For eg : 10000 – 1 a)9998 b)9999 c)10001
CLASS	**IV**
CHAPTER	**Multiplication &Division**

LEARNING OBJECTIVES	• To make them acquainted with the knowledge of • Meaning of multiply & divide • Terms related to multiply & divide • How to do fast calculations. • Importance of multiply &divide in daily life
P.K. TESTING	Q. Simple question based on multiply and divide will be asked a) 458X1 = b) 86÷0=
VOCABULARY	• Grouping • Distributive • Property • Product
IMPORTANT SPELLING	• Divisor • Dividend quotient • Multiplier • Remainder • Multiplicand
INNOVATIVE METHODS	• Smart board • Example from daily life • Online reference material

PROCEDURE	Introduction of the topic is done by showing modules in smart class .Sufficient practice of tables will be given to the students • Properties of division • Multiply by 10,100 200etc • Multiply by grouping • Multiply using distributive property • Multiply sums and word problems. • Division by 10, 100, 1000 etc. • Division and word problems
STUDENT'S PARTICIPATION	• Students will be asked to do the complete the multiplication grid • Solve the game to reach the finish point
RECAPITULATION	To check their understanding few questions will be given to them to solve in worksheet Q. Fill ups a) 5468X8= b) 5445÷0 =
LEARNING OUTCOME	Student will understand the concept of multiplication and division they will understand the relation between multiplication and division and

	will be able to use these concepts in daily life
ASSESSMENTS	Students will be asked to complete worksheet of division and multiplication

CLASS	**IV**
CHAPTER	**Geometry**
LEARNING OBJECTIVES	• To make them acquainted with the knowledge of • Difference between ray , line and line segment • Differences between open and closed figure • Their application in their daily life
P.K. TESTING	a) A square has _____vertices b) A line has ____end points. c) Is the best examples of a ray d) Give two example of open figure
VOCABULARY	• Plane • Solid • Vertices • Open /closed • Measuring • Straight • Curved

	• Polygon
IMPORTANT SPELLING	• Segment • Length • Definite • Figures • Geometry • Diameter
INNOVATIVE METHODS	• Smart board • Example from daily life • Online reference material
PROCEDURE	Following topics will be explained to the students • Line • Line segment • Ray • Open /Close • Polygon • Circle
STUDENT'S PARTICIPATION	Students will be asked tocount the no of line ray and line segments in the given figures.
RECAPITULATION	Q. Draw a line segment of length

	a) 4.5cm b)6.2cm Q. Draw and define a ray Fill ups a) A ____ has a definite length b) A ____ has no length, breadth or thickness.
LEARNING OUTCOME	Student will understand the concept of different geometry
ASSESSMENTS	Students will be asked to complete worksheet of geometry

CLASS	**V**
CHAPTER	**Factors and Multiples**
LEARNING OBJECTIVES	• Objectives to make them acquainted with the knowledge of : • What are prime and composite no's • Divisibility rules of 2, 3, 4, 5, 6, 8, 9

	and 10 • Recognize add/even no
VOCABULARY	• Multiple • Factor • Prime number • Composite number • Factorization • Prime Factorization • Divisibility rules
IMPORTANT SPELLING	• Unique number • Even/Odd • Product • Greatest • Division method
INNOVATIVE METHODS	• Smart class • Online reference material • https://www.youtube.com/watch?v=XpQAPOZ6IRA • https://www.youtube.com/watch?v=8M4nRIOccvo
PROCEDUERES	• Multiples & • Properties if Multiples • Factor &

	• Properties of Factor • Prime and Composite number • Prime Factors • Divisibility rules • H.C.F & L.C.M • Making smallest and greatest number using the given digits will be explained
STUDENT PARTICIPATION	Students will be explained Sieve of Eratosthenes to find out all the prime number
RECAPTITUALTION	a) Find all factor of 15 and 8 b) Find prime number between 60 and 80
LEARNING OUTCOME	Children will be able to read and write the given number according to multiples and factors
ASSESSMENT	Student will be given worksheet on multiple and factors

CLASS	**IV**
CHAPTER	**Number System**
LEARNING	Objectives to make them acquainted with the knowledge of :

OBJECTIVES	• Indian/International place value chart (till ten lakhs and hundred millions place). • Place /face value, expanded/short form successor/predecessor to make the smallest and greatest number using given digits. • Differences between periods and places.
VOCABULARY	• Places and Periods. • Place and Face value. • Expanded and Short form. • Successor and predecessor. • Ascending and Descending order. • Smallest and Greatest number.
Important Spelling	• Hundred • Thousand • Lakh • Million
INNOVATIVE METHODS	• Smart class • Online reference material

PROCEDUERES	• The teacher will explain Indian place value chart and international place value chart. & • Explain them how to write in words by using comas at right place • Place / Face value • Expanded form /Short form • Successor & Predecessor • Ascending & Descending order • Making smallest and greatest number using the given digits will be explained
STUDENT PARTICIPATION	Students will be solve the cross word puzzle
RECAPTITUALTION	1) Write in words a) 420452 (Indian system) b) 3605252(International system) 2) Write in short forms 800000 + 4000 + 90 + 3 3) Find the difference between place and face value of 5 in 25684 4) Write the successor & predecessor of 654875

	5) Fill ups a)10 millions = ____ lakhs b) 1 million = ____ lakhs
LEARNING OUTCOME	Children will be able to read and write the given number according to Indian and international number system
ASSESSMENT	Children will be asked multiple choice question Q. Successor of 100000 a) 99999 b) 100001

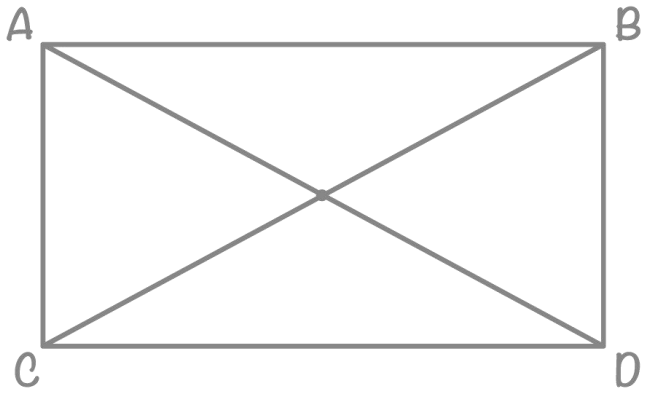
CLASS	**IV**
CHAPTER	**Roman Numerals**
LEARNING OBJECTIVES	• To make them acquainted with the knowledge • How to read and write the roman Numerals • Importance of roman numerals in daily life

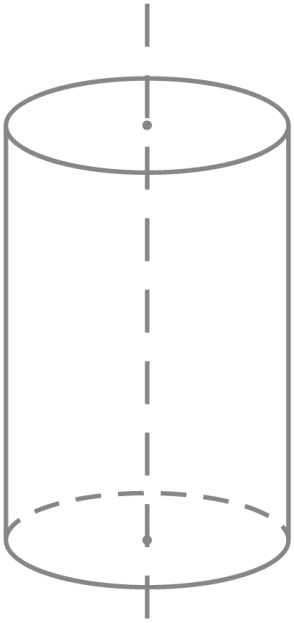
P.K. TESTING	a) X stands for 10 b) There are 7 symbols in roman numerals. c) A symbol can be repeated a maximum 3 times d) D stands for no response
VOCABULARY	I, v, X, L, C, D, M in Hindu Arabic numerals & Roman numerals
IMPORTANT SPELLING	Repeated three times • Subtracted • Maximum • added
INNOVATIVE METHODS	Activity based method will be used to explain the topic of Roman Numerals smart class. Modules will, be shown to the student of how to add & sub while writing Roman Numerals
PROCEDURE	7 basic symbol and rule will be explained with the help of book and smart class 7 Basic Symbols Roman Numerals Hindu Arabic numerals I 1

	V 5 X 10 L 50 C 100 D 500 M 1000 • Symbol V, L and D are never repeated or subtracted • A symbol can be repeated up to maximum of 3 times • A smaller no can be written on the left side of a bigger no only once • Any symbol can be subtracted only from their next two symbol
STUDENT'S PARTICIPATION	Student will form different roman numerals with the help of match sticks Begin with 2 matchsticks to form smallest (II) and greatest (L) roman numerals
RECAPITULATION	A worksheet will be given to the students Eg Write the Hindu Arabic a) XXI = b) XXX=
LEARNING	To check their understanding about roman numerals

OUTCOME	a worksheet will be given to them to solve
ASSESSMENTS	Children will be asked to solve multiple choice question which contain V/X ,Fill-ups, solve , compare and M.C.Q

CLASS	**IV**
CHAPTER	**Symmetry**
LEARNING OBJECTIVES	• Students will be able to define symmetry • Students will be able to draw lines symmetry of different figures. • They will understand the importance of symmetry in our daily life
P.K. TESTING	• Students will be asked about different shapes and ways to divide the equally • Howmany sides of a rectangle are equal? • How can we divide a square into two equal parts
VOCABULARY	• Symmetry • Infinite • Uncountable • countless

IMPORTANT SPELLING	• Equilateral • Isosceles • Circle • Rectangle • square
INNOVATIVE METHODS	• Smart board • Example from daily life • Online reference material
PROCEDURE	• Meaning of symmetry will be explained by paper folding method • Symmetry in geometrical shapes are given below will be explained 

	
STUDENT'S PARTICIPATION	• Students will be given different shapes or figures to draw the symmetry • They will be asked to different example of symmetrical objects from their surrounding
RECAPITULATION	Draw all possible lines of symmetry of different figures
LEARNING OUTCOME	Student were able to define symmetry & draw symmetry of different shapes
ASSESSMENTS	Students will be asked to complete worksheet of symmetry

CLASS	**IV**
CHAPTER	**Unitary Methods**
LEARNING OBJECTIVES	• To enable the students to know about multiplication and division • To sharpen skills in multiplication and division • To make students understand the word problems related to daily life situations. • Developing skill of correct calculation • To enhance the mental ability of the students.
P.K. TESTING	a) Cost of 1 pen is Rs 15. Find the cost of 12 pens? b) There are 30 eggs in five trays how many eggs are there in each tray
VOCABULARY USED	• Multiplication • Division • Tables
IMPORTANT SPELLING	• Multiplication • Division
INNOVATIVE METHODS	• Smart board • Examples from daily life

	• Online reference material
PROCEDURE	• This method is also known as method of one's by • Finding the value of one • Value of many can be found.
STUDENT'S PARTICIPATION	Student will be asked to do the questions from the exercise given in the book
RECAPITULATION	Q. 4 boats can carry 64 People. How many people can be carried in a beats?
LEARNING OUTCOME	• To make them acquainted with the knowledge of Meaning of unitary method • How to find to cost of the given no of things • Use of unitary method in daily life
ASSESSMENTS	Students will asked some question Q. The cost of 1 dozen bananas is RS 48 .What will be the cost of 8 bananas?