



P M English Medium School, Dhinoj

Yearly Plan For Academic Session 2024-2025

Grade: VI

Subject: MATHEMATICS

Month	No.Of Teaching Days	Assessment	Ch.No/Chap. Name	No. of Sessions	Learning Outcomes
April	21	Arithmetic, HOTS	Chapter 1: Knowing Our Numbers Chapter 2: Whole Numbers	Chapter 1: 15 Chapter 2: 13	Students will be able to: <ul style="list-style-type: none">❖ Find the place value of the digit in order to list total numbers.❖ List the total numbers that can be made from the given digits in order to know the place value of the digit in the number.❖ Arrange the digits of a given number in order to make smaller or bigger number❖ Add 1 to the greatest 1 digit,2-digit, 3-digit number and so on in order to get the smallest next digit number.❖ Expand the given number in order to know the place value of a given digit in a particular number.❖ Write the 6 digits number in expanded form in order to write its number name.❖ Add bigger digits numbers in order to understand the situations dealing with

					<p>larger numbers.</p> <ul style="list-style-type: none"> ❖ Use places of the digits of a particular number in order to read it easily. ❖ Apply appropriate operations (addition, subtraction, multiplication and division) in order to solve problems involving large numbers. <p>Chapter 2</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Define Natural and whole numbers. ❖ Find the predecessor and successor of a given number. ❖ Add, subtract and multiply whole numbers on the number line.
June	16	Arithmetic, HOTS	Chapter 3: Playing With Numbers	Chapter 3: 21	<ul style="list-style-type: none"> ❖ Students will be able to: ❖ Arrange the numbers in a row to determine the factors of a given number. ❖ Determine the numbers which exactly divide the given number in order to find the factors. ❖ Write the factors of a given number to determine prime and composite numbers ❖ Evaluate the factors of given two or more numbers to find the common factors and multiples. ❖ Apply the rules of divisibility in order to find the factors of a number quickly. ❖ Factorise a number through prime

					<ul style="list-style-type: none"> ❖ factorisation to list the primes factors ❖ List down the common factors of given numbers to determine their HCF ❖ List down the common multiples of given numbers to determine their LCM. ❖ Apply the concept of HCF to solve related real-life problems. ❖ Apply the concept of LCM to solve related real-life problems.
July	24	Geometry, HOTS	<p>Chapter 4: Basic Geometrical Ideas</p> <p>Chapter 5: Understanding Elementary Shapes</p>	<p>Chapter 4: 15</p> <p>Chapter 5: 17</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Define the terms like Point, line, line-segment, parallel lines and intersecting lines or basic elements of geometry. ❖ Compare line, line -segment and ray. ❖ Describe an open curve and a closed curve in order to distinguish between the two. ❖ Examine the given curves in order to identify polygons and non-polygons. ❖ Understanding about Polygon and its types and can relate it with their surrounding objects. ❖ Draw rough sketch of a polygon in order to label and describe its elements. ❖ Differentiate about open and close Polygon. ❖ Define the terms: sides, adjacent

					<p>sides, vertices, adjacent vertices, diagonals.</p> <ul style="list-style-type: none">❖ Define and identify Angle and its elements such as vertex, arm, interior and exterior of an angle. <p>Chapter 5</p> <p>Students will be able to:</p> <ul style="list-style-type: none">❖ Measure the given line segments in order to compare them.❖ Compare line segments by observing and using divider.❖ Understand clock -wise and anticlockwise direction.❖ Identifying the number of revolutions and angles formed by the hands of the clock.❖ Compare the given angles to classify them as a right angle, straight angle or a complete angle.❖ Compare the given angles in order to classify them as an acute angle, obtuse angle or a reflex angle according to their measure.❖ Concept of perpendicular lines.❖ Able to Classify triangles based on sides: scalene, isosceles, equilateral and angles: acute, obtuse and right.❖ Able to use the protractor for drawing and finding an angle.
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Aug.	19	Data Handling	Chapter 9: Data Handling Chapter 6: Integers	Chapter 9: 10 Chapter 6: 15	<p>Students will be:</p> <ul style="list-style-type: none"> ❖ Able to understand the concept of data or raw data. ❖ How to organise and interpret data. ❖ Learn to interpret Data by using Pictograph. <p>Chapter 6</p> <p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Represent integers with their signs to differentiate positive number, negative number and zero from each other ❖ Denote numbers with their signs to represent real life situations like temperature scale, credit debit etc. ❖ Represent the integer on Number Line to determine its position with respect to other integers. ❖ Determine one more and one less of a given integers in order to find its predecessor and successor. ❖ Determine the order of integers to represent them on number line and draw comparison between them. ❖ Represent the integers on number line to perform arithmetic operations on them. ❖ Apply the rules of integer's operations in order to perform arithmetic operations on them. ❖ Able to do Addition and subtraction
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					of Integers using rules of addition and subtraction.
Sept.	10	Term1-Exam Chaps - 1, 2, 3, 4, 5, 6, 9	REVISION TERM 1 EXAM	REVISION TERM 1 EXAM	
Oct.	18	Arithmetic, HOTS	Chapter 7: Fractions	Chapter 7: 24	<p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Represent a number as a part of the whole in order to determine the fraction. ❖ Determine a part and whole in order to label numerator and denominator of a fraction ❖ Draw equal parts between the whole numbers in order to represent fractions on a number line. ❖ Identify types of Fractions. ❖ Convert mixed fraction to improper fraction and improper fraction to mixed fraction. ❖ Find Lowest or simplest Form of Fraction. ❖ Able to frame Equivalent Fraction of Given number. ❖ Perform cross multiplication among two fractions in order to verify their equivalence. ❖ Check the denominators of the fractions in order distinguish between like and unlike fractions.

					<ul style="list-style-type: none"> ❖ Inspect the numerators of the like fractions in order to determine larger and smaller fraction(s). ❖ Determine the LCM of the unlike fractions in order to compare them. ❖ Convert the given fractions into its equivalent fractions in order to perform addition and subtraction on them.
Nov.	17	Arithmetic, HOTS	Chapter 8: Decimals Chapter 10: Mensuration	Chapter 8: 17 Chapter 10: 05	<p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Express fractions into Decimals and Vice- Versa. ❖ Represent Decimals on a Number Line. ❖ Learn to write expanded forms of Decimals. ❖ Compare decimal numbers using place value chart. ❖ Operations such as Addition and subtraction of Decimals. ❖ Express length, Money and weight in the form of Decimals. ❖ Recognize that the decimal point is used to separate the whole number part from the fractional part.
Dec.	10	Mensuration, HOTS	Chapter 10: Mensuration (Continue..)	Chapter 10: 13	<p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Define Perimeter and Area. ❖ Calculate the perimeter and area of

					<p>both regular and an irregular figure.</p> <ul style="list-style-type: none"> ❖ Differentiate regular and irregular polygons. ❖ Calculate area of a figure using a squared (graph) paper.
Jan. 2025	22	Algebra, Arithmetic+HOTS	Chapter 11: Algebra Chapter 12: Ratio and Proportion	Chapter 11: 10 Chapter 12:19	<p>Students will be able to:</p> <ul style="list-style-type: none"> ❖ Observe the patterns of making letters and shapes using Match sticks. ❖ They will be able to form a rule of any letters and shapes using matchstick patterns. ❖ Understanding about Variables. ❖ Use Variables in forming different rules ❖ Chapter 12 ❖ Students will able to: ❖ Develop the knowledge of Concept of ratio and Equivalent ratio. ❖ Find the ratio of any two quantities of the same unit and different units. ❖ Understand the concept of proportion. ❖ Recognise whether the two ratios are in proportion or not. ❖ Identifying Extreme and Middle term. ❖ Connect Ratio with daily -life situation. ❖ Identify Same ratio in different situations. ❖ Unitary -Method.

Feb-25	18		REVISION	REVISION	
March-25	0	Term2-Exam Chaps - 7, 8, 10, 11, 12	TERM 2 EXAM	TERM 2 EXAM	
Total	175				