

MATHEMATICS 7				
MONTH	NO. OF PERIODS	TOPIC	SUB TOPIC	LEARNING OBJECTIVE
APRIL	19	Chapter 1. Integers	*Whole Numbers and Integers *EXERCISE 1.1	*Differentiate between whole numbers and integers *Represent numbers with positive and negative signs and apply to various
		Chapter 1. Integers	*MULTIPLICATION OF INTEGERS *Properties of multiplication of integers *EXERCISE 1.2 *ART INTEGRATED ACTIVITY: Number line representation of Integers	*Apply rules of multiplication of integers and solve various arithmetic expressions and contextual problems *Apply properties of multiplication of integers and simplify arithmetic expressions
		Chapter 1. Integers	*MULTIPLICATION OF INTEGERS *Properties of multiplication of integers *EXERCISE 1.2	*Apply rules of multiplication of integers and solve various arithmetic expressions and contextual problems *Apply properties of multiplication of integers and simplify arithmetic expressions
		Chapter 1. Integers	MATHS LAB ACTIVITY: Number line pathways activity to represent integers on number line	to represent integers on number line
		Chapter 1. Integers	*Division of integers *Properties of division of Integers	*Infer division of integers as inverse operation of multiplication and write multiplication statement into corresponding division statement *Apply properties of division of integers and simplify arithmetic expressions
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		Chapter 1. Integers	EXERCISE 1.3	Apply properties of division of integers and simplify arithmetic expressions
		Chapter 1. Integers	EXERCISE 1.3 *Revision of concepts	Apply properties of division of integers and simplify arithmetic expressions
		Chapter 1. Integers	Test	Assessment of students
				Chapter 2 Fractions & Decimals
		Chapter 2	explore the	Extend concept of multiplication as repetitive addition for fraction and

MAY	19	Chapter 2 Fractions & Decimals	explore the multiplication/ division of fractions/decimals through pictures/paper folding activities /daily life examples	Extend concept of multiplication as repetitive addition for fraction and multiply a fraction and a whole
		Chapter 2	EXERCISE 2.2	Multiply fractions involving the term 'of'
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		Chapter 2	MATHS LAB ACTIVITY: Paper grid to multiply	Visualise the multiplication of fraction
		Chapter 2	Division of fractions	*Invert a given fraction and find its reciprocal
		Chapter 2	EXERCISE 2.3	*Divide two fractions and find the smaller parts of the fraction
		Chapter 2	Revision of topic	to recall all the concepts of Fraction
		Chapter 2	Test	Assessment of students
		Chapter 2	*Decimal Numbers	recall and apply concept of decimal representation and expansion and
		Chapter 2	MATHS LAB ACTIVITY:	Visualise the multiplication of decimals
		Chapter 2	*EXERCISE 2.4	Find the intersection of 2 decimal numbers on the grid and represent
		Chapter 2	Division of decimal numbers	*Divide decimal numbers by 10, 100 and 1000 and infer left shift in
		Chapter 2	Division of decimal numbers	Divide decimal number by a whole number and solve real life problems
		Chapter 2	Revision of topic	to recall all the concepts of Fraction
		JULY	21	
	PT REVISION			to recall all the concepts
Chapter 3.	*Arithmetic mean			*Calculate average and represent the central tendency of the data
Chapter 3. Data Handling	*EXERCISE 3.1			Finding Mean , median , Mode using coin and numbers
Chapter 3. Data Handling	*MODE *Median *EXERCISE 3.2			*Calculate mode of the data and find the observation that occurs most often in the data set *Calculate median of the data and find the observation that lies in the middle of the data set
Chapter 3.	*Drawing double bar graph			*Represent data using double bar graph
Chapter 3. Data Handling	MATHS LAB ACTIVITY/ ART INTEGRATED ACTIVITY: Preparing bar graph to represent favorite food or *Preparing double bar graph of Marks *collect data from their classmates of their interest, and then represent the data visually.			*Represent data using double bar graph and compare and discuss two collection of data at a glance
Chapter 3. Data Handling	EXERCISE 3.3 Revision of chapter			*Represent data using double bar graph and compare and discuss two collection of data at a glance
Chapter 3.	Test			Assessment of students
Chapter 4 Simple	*Setting up of an equation			*Write the statements in the form of equations
Chapter 4 Simple	EXERCISE 4.1			*Write the statements in the form of equations

AUGUST	18	Chapter 4 Simple Equation	MATHS LAB ACTIVITY: Framing equations by giving particular situation ART INTEGRATED ACTIVITY: balance scales to depict the equality in equations and represent variables and constants	Will learn Framing equations
		Chapter 4 Simple	Solving an Equation	*Create a strategy and solve the given simple equation.
		Chapter 4 Simple	Solving an Equation	*Create a strategy and solve the given simple equation.
		Chapter 4 Simple	More equations	*Explain the first step to be taken and separate the variable while solving
		Chapter 4 Simple	More equations	*Explain the first step to be taken and separate the variable while solving
		Chapter 4 Simple	Revision of topic	to recall all the concepts of Fraction
		Chapter 4 Simple	Test	Assessment of students
			PT REVISION	to recall all the concepts
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		Chapter 5 Lines	*Concepts of line, line segment and ray	*Recall the concept of line, line segment and angles and identify them
		Chapter 5 Lines	EXERCISE 5.1	Examine different angles and determine the measure of their complement
		Chapter 5 Lines	ART INTEGRATED ACTIVITY:	* Types of angles
		Chapter 5 Lines	*Transversal	*Describe adjacent angles and identify a pair of adjacent angles in the given
		Chapter 5 Lines	*Pairs of Lines	*Create a strategy and determine whether the given lines are parallel or
		Chapter 5 Lines	continued	*Create a strategy and determine whether the given lines are parallel or
		Chapter 5 Lines	Revision of topic	to recall all the concepts of Fraction
Chapter 5 Lines	Test	Assessment of students		
SEPTEMBER	16	Chapter 6	*Recall Types of triangles	Compare different triangles and classify them on the basis of their sides
		Chapter 6	EXERCISE 6.1 based on	*Describe median of a triangle and identify it for the given triangle
		Chapter 6	MATHS LAB ACTIVITY:	the type of triangle using Geo board
		Chapter 6	EXTERIOR ANGLE OF A TRIANGLE AND ITS PROPERTY	Apply the exterior angle property of a triangle and find the measure of
		Chapter 6	*ART INTEGRATED ACTIVITY/ Lab Activity	verify Exterior angle property
		Chapter 6	Continued EXERCISE 6.2	Apply angle sum property of a triangle and find the measure of the
		Chapter 6	EXERCISE 6.3	Apply angle sum property of a triangle and find the measure of the
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		Chapter 6	*TWO SPECIAL TRIANGLES : EQUILATERAL AND	SUM OF THE LENGTHS OF TWO SIDES OF A TRIANGLE Property
		Chapter 6	EXERCISE 6.4	SUM OF THE LENGTHS OF TWO SIDES OF A TRIANGLE Property
		Chapter 6 Triangles & its Properties	Revision of topic	to recall all the concepts of Fraction
			Revision for half-yearly	To recall previous topics
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OCTOBER	18	Chapter 8	*What are rational numbers	*Define rational numbers and classify a number as a rational number
		Chapter 8	RATIONAL NUMBERS IN STANDARD FORM	*Simplify rational number such that there is no common factor between
		Chapter 8	Rational number between two rational number	Calculate and find rational numbers between any two rational numbers
		Chapter 8	ART INTEGRATED ACTIVITY/MATHS LAB ACTIVITY::	to visualise the Rational numbers
		Chapter 8	OPERATIONS ON RATIONAL NUMBERS	Apply the rules of rational numbers operations and
		Chapter 8	EXERCISE 8.2	Apply the rules of rational numbers operations and
		Chapter 8	Test	Assessment of students
Chapter 7		*Convert denominators of fractions into 100 and represent them in		
Chapter 7	*Converting Percentages to Fractions or Decimals	Convert decimal numbers to percentage and make comparing of		

NOVEMBER	20	Chapter 7 Comparing Quantities	*Ratios to Percents *Increase or Decrease as Per Cent *PRICES RELATED TO AN ITEM OR BUYING AND SELLING	*Compare the units of the quantities and represent them in ratio *Calculate increase or decrease in quantity as percentage and examine change in quantity based on real life problems *Calculate cost and selling price and determine profit /loss percentage
		Chapter 7	ART INTEGRATED ACTIVITY/MATHS LAB	to find percentage by using grid
		Chapter 7 Comparing Quantities	Profit or Loss as a Percentage EXERCISE 7.2	**Calculate cost and selling price and determine profit /loss percentage
		Chapter 7 Comparing Quantities	SIMPLE INTEREST EXERCISE 7.2 Revision	*Understand the concept of simple interest and interpret real life problems
		Chapter 7	Test	Assessment of students
DECEMBER	21	Chapter 9	AREA OF A PARALLELOGRAM	find the perimeter and estimate the area of parallelogram
		Chapter 9	ART INTEGRATED ACTIVITY/	Deriving formula
		Chapter 9	EXERCISE 9.1	find the perimeter and estimate the area of parallelogram
		Chapter 9	CIRCLES	*Use direct or indirect measurements and describe the relationships
		Chapter 9	EXERCISE 9.2	Use direct or indirect methods to find the circumference of circle,
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		Chapter 9 Perimeter & Area	ART INTEGRATED ACTIVITY/ Investigate different circumference of circles and compare them with their respective diameter and relate circumference to Pi. Revision of topic	to recall all the concepts of Fraction
		Chapter 9 Perimeter & Area	Test	Assessment of students
			PT REVISION	To recall previous topics
		JANUARY	19	Chapter 10
Chapter 10	LIKE AND UNLIKE TERMS			*Examine the algebraic factors of the given terms and distinguish
Chapter 10	ART INTEGRATED ACTIVITY/MATHS LAB ACTIVITY::			to show how identities works
Chapter 10	*FINDING THE VALUE OF AN EXPRESSION			Use the given value of variable(s) and evaluate the algebraic
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Chapter 10	Revision of topic			to recall all the concepts of Fraction
Chapter 10	Test			Assessment of students
Chapter 11Exponents & Powers	INTRODUCTION EXPONENTS EXERCISE 11.1			*Describe exponential form of numbers and express numbers in exponential notation. *Examine the exponential form of the given number and identify its base and exponent. *Find prime factors of numbers and express them as the product of powers of prime factors

