

MATHEMATICS 8				
MONTH	NO. OF PERIODS	TOPIC	SUB TOPIC	LEARNING OBJECTIVE
APRIL	19	Chapter 1. Rational Numbers	Introduction to Rational Numbers Properties of Rational Numbers EXERCISE 1.1	*Define rational number in order to identify whether the given number is a rational number or not *Define the additive and multiplicative inverse of rational numbers using prior knowledge of integers and fractions Number line representation of rational numbers
		Chapter 1. Rational Numbers	Properties of Rational Numbers EXERCISE 1.1	**Define the additive and multiplicative inverse of rational numbers using prior knowledge of integers and fractions *Number line representation of rational numbers
		Chapter 1. Rational Numbers	EXERCISE 1.1 *Revision	**Define the additive and multiplicative inverse of rational numbers using prior knowledge of integers and fractions *Apply Distributive property of multiplication over addition for rational numbers and simplify a given expression
		Chapter 1. Rational Numbers	Test	Assessment of students
		Chapter 2. Linear Equation in one Variable	*Introduction Check previous knowledge *Solving Equations having the Variable on both Sides EXERCISE 2.1	*Meaning of Linear Equation in one variable and its solution *Identify the variable(s) and the highest power of the variable in a given algebraic equation and distinguish whether it is a linear equation in one variable or not
		Chapter 2. Linear Equation in one Variable	Art integrated activity / Lab activity - Playing cards activity	Meaning of Linear Equation in one variable and its solution
		Chapter 2. Linear Equation in one Variable	*Solving Equations having the Variable on both Sides EXERCISE 2.1	Transpose terms to the other side and solve linear equations which have linear expression on one side and numbers on the other side
		Chapter 2. Linear Equation in one Variable	*Reducing Equations to Simpler Form *EXERCISE 2.2	Simplify the given linear equation in one variable and solve them *Use cross multiplication and reduce certain equations into their linear form
		Chapter 2. Linear Equation in one Variable	Continued *Reducing Equations to Simpler Form *EXERCISE 2.2	Simplify the given linear equation in one variable and solve them *Use cross multiplication and reduce certain equations into their linear form
		Chapter 2. Linear Equation in one Variable	Revision of topic	to recall all the concepts of the chapter

MAY	19	Chapter 2. Linear Equation in one Variable	Test	Assessment of students
		Chapter 3, Understanding Quadrilaterals	Introduction Convex and concave polygons Regular and irregular polygons EXERCISE 3.1	List the properties of a polygon and classify the given figures as a polygon *List the properties of different types of polygons and classify them as regular or irregular, concave or convex
		Chapter 3, Understanding	Convex and concave polygons	List the properties of a polygon and classify the given figures as a polygon
		Chapter 3, Understanding	Art integrated activity / Lab activity -	can Differentiate between types of polygons
		Chapter 3, Understanding	Sum of the Measures of the Exterior Angles of a Polygon	Recall the angle sum property of triangle and extend it for quadrilaterals
		Chapter 3, Understanding	EXERCISE 3.2 based on Sum of the Measures of the Exterior	Apply angle sum property of a quadrilateral and find the
		Chapter 3, Understanding	*Art integrated activity / Lab activity -	To visualise the quadrilateral family using paper folding activity and
		Chapter 3, Understanding	EXERCISE 3.3 based on Parallelogram properties	Discuss the properties of a parallelogram in order
		Chapter 3, Understanding	EXERCISE 3.3 based on Parallelogram properties	Discuss the properties of a parallelogram in order
		Chapter 3, Understanding	EXERCISE 3.3 based on Parallelogram properties	Discuss the properties of a parallelogram in order
		Chapter 3, Understanding	Some Special Parallelograms	Discuss the properties of a parallelogram in order
		Chapter 3, Understanding	*EXERCISE 3.4	to recall all the concepts of the chapter
		Chapter 3, Understanding	Test	Assessment of students
		Chapter 4, Data Handling	Recal previous knowledge	*Construct a circle graph with the given data
		Chapter 4, Data Handling	*Circle Graph or Pie Chart	*Construct a circle graph with the given data
Chapter 4, Data Handling	*Art integrated activity / Lab activity -	Pie chart / Playing cards		
JULY	21	Chapter 4, Data Handling	Chance and Probability	To List the outcomes of given event
		Chapter 4, Data Handling	Chance and Probability	To List the outcomes of given event
		Chapter 4, Data Handling	Revision of topic	to recall all the concepts of the chapter
		Chapter 4, Data Handling	Test	Assessment of students
		Chapter 5. Squares & Square roots	*Introduction Properties of Square Numbers Numbers between square numbers EXERCISE 5.1	Define perfect squares and classify the given numbers as perfect squares or non-perfect squares *Observe the number and find the unit place of its square *Observe different number pattern and deduce square numbers *Use the rule that there are exactly $2n$ non-perfect square numbers between the squares of the number n and $(n+1)$ and find how many numbers, lie
		Chapter 5.	EXERCISE 5.1	*Observe the number and find the unit place of its square
		Chapter 5. Squares & Square roots	EXERCISE 5.1	*Observe the number and find the unit place of its square *Observe different number pattern and deduce square numbers *Use the rule that there are exactly $2n$ non-perfect square numbers between the squares of the number n and $(n+1)$ and find how many numbers, lie between the squares of the given two consecutive numbers
		Chapter 5. Squares & Square roots	Art integrated activity / Lab activity - Using paper balls to find squares Making chart on squares and their square roots	find squares Learn squares and their square roots
		Chapter 5.	Finding the Square of a Number	*Use the rule that a perfect square number (n^2) can be written as the sum of
		Chapter 5.	Square Roots	*Use method of repeated subtraction and find the square root of the given square
		Chapter 5.	EXERCISE 5.3	Use prime factorization method and determine whether

AUGUST	18	Chapter 5. Squares & Square roots	EXERCISE 5.3	Use prime factorization method and find the smallest number to be operated (all the four arithmetic operations) on given number to get a perfect square and then find the square root of the new number
		Chapter 5.	Finding square root by division method	Use long division method and find the square root of the
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		Chapter 5.	Finding square root by division method	Use long division method and find the square root of the
		Chapter 5.	Test	Assessment of students
		Chapter 6 Cubes & Cube Roots	Cubes	Define perfect cube /cube number and classify the given
		Chapter 6 Cubes & Cube Roots	Art integrated activity / Lab activity -	To learn cubes & cube root 1-10
		Chapter 6 Cubes & Cube Roots	Cube Roots	Use prime factorization and rule out a number as a
		Chapter 6 Cubes & Cube Roots	EXERCISE 6.2	Use estimation and find the cube root of a given perfect
		Chapter 6 Cubes & Cube Roots	Test	Assessment of students
		Chapter 7 Comparing Quantities	Recalling Ratios and Percentages EXERCISE 7.1	Convert ratios to percentage and solve the given questions
		Chapter 7 Comparing	EXERCISE 7.1	*Convert ratios to percentage and solve the given questions
		Chapter 7 Comparing	EXERCISE 7.2	*Apply the formula for discount and discount percentage
		Chapter 7 Comparing	Art integrated activity / Lab activity -	To learn dicount by real life example of small values
		Chapter 7 Comparing	Deducing a Formula for Compound Interest	Use formula of simple interest and deduce the formula
		Chapter 7 Comparing	Revision of topic	to recall all the concepts of the chapter
Chapter 7 Comparing	Test	Assessment of students		
SEPTEMBER	16	Revision for half-yearly	Revision for half-yearly	To recall previous topics
		Revision for half-yearly	Revision for half-yearly	To recall previous topics
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		Chapter 11 Direct & Inverse Proportion	Introduction Direct Proportion EXERCISE 11.1	Observe the relationship between the given two quantities and solve to find constant of proportionality *Examine situations and decide whether two quantities are proportional to each other or not *Complete a given table showing two proportional quantities and answer questions based on them
		Chapter 11 Direct & Inverse Proportion	Direct Proportion EXERCISE 11.1	Observe the relationship between the given two quantities and solve to find constant of proportionality *Examine situations and decide whether two quantities are proportional to each other or not *Complete a given table showing two proportional quantities and answer questions based on them
		Chapter 11 Direct & Inverse	Inverse Proportion	Observe the table and determine which pair of variables
		Chapter 11 Direct & Inverse	Inverse Proportion	Observe the table and determine which pair of variables
		Chapter 11 Direct & Inverse Proportion	Art integrated activity / Lab activity - Presentation on inverse and direct method	To show real life examples of Direct & inverse proportion
Chapter 11 Direct & Inverse	Revision of topic	to recall all the concepts of the chapter		
Chapter 11 Direct & Inverse	Test	Assessment of students		

OCTOBER	18	Chapter Exponents & Powers	Laws of Exponents	*Apply laws of exponents and simplify a given expression
		Chapter Exponents & Powers	EXERCISE 10.1	*Apply laws of exponents and simplify a given expression
		Chapter Exponents & Powers	EXERCISE 10.1	*Apply laws of exponents and simplify a given expression
		Chapter Exponents & Powers	Use of Exponents to Express Small Numbers in Standard Form	Express very large and very small numbers in the standard form and
		Chapter Exponents & Powers	Art integrated activity / Lab activity -	exponents and powers activity by paper folding activity
		Chapter Exponents & Powers	Use of Exponents to Express Small Numbers in Standard Form	Express very large and very small numbers in the standard form and
		Chapter Exponents & Powers	Test	Assessment of students
			Revision for PT	To recall previous topics
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			Chapter 8 Algebraic	Addition and Subtraction of Algebraic Expressions
	Chapter 8 Algebraic	EXERCISE 8.1	Identify like and unlike terms in algebraic expressions and add or subtract the	
NOVEMBER	20	Chapter 8 Algebraic	Multiplication of Algebraic Expressions:	*Use rules of exponents and powers and multiply a monomial by a monomial
		Chapter 8 Algebraic	Multiplication of Algebraic Expressions:	*Use rules of exponents and powers and multiply a monomial by a monomial
		Chapter 8 Algebraic	Multiplying a Monomial by a Polynomial	Simplify the algebraic expressions and find the value of
		Chapter 8 Algebraic Expressions	Multiplying a Monomial by a Polynomial Multiplying a monomial by a binomial Multiplying a monomial by a trinomial EXERCISE 8.3	Simplify the algebraic expressions and find the value of expression for the given value of the variable Use distributive law of multiplication and obtain the product of two binomials Use distributive law of multiplication and obtain the product of a binomial and a trinomial
		Chapter 8 Algebraic	ART INTEGRATED ACTIVITY/MATHS LAB ACTIVITY::	Using identities $(a+b)^2$
		Chapter 8 Algebraic Expressions	Multiplying a binomial by a trinomial EXERCISE 8.4	Simplify the algebraic expressions and find the value of expression for the given value of the variable Use distributive law of multiplication and obtain the
		Chapter 8 Algebraic Expressions	Multiplying a binomial by a trinomial EXERCISE 8.4 Revision	To recall previous concept of the chapter
		Chapter 8 Algebraic	Test	Assessment of students
		Chapter 9	Introduction	Breakdown a given trapezium into known figures
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Chapter 9	Surface Area of Cube, Cuboid and Cylinder	Illustrate 2-D representation of a cuboid, cube and cylinder and compute the		
Chapter 9	Art integrated activity / Lab activity -	to derive volume of a cylinder		
Chapter 9 Mensuration	Surface Area of Cube, Cuboid and Cylinder EXERCISE 9.2	Illustrate 2-D representation of a cuboid, cube and cylinder and compute the surface areas by breaking them in to areas of known figures Calculate the surface area of a cube, cuboid and cylinder to determine the cost of painting /covering their surface		
Chapter 9 Mensuration	Surface Area of Cube, Cuboid and Cylinder EXERCISE 9.2 Volume of Cube, Cuboid and Cylinder	Calculate the volume of a given cube, cuboid, cylinder and infer the quantity of any substance it can hold Modify the values of l, b, h and examine the effect it has on the value of the surface area /volume of a cuboid Modify the values of r, h and examine the effect it has on the value of the surface area /volume of a cylinder		
Chapter 9 Mensuration	Art integrated activity / Lab activity - Using Solids derive the formula of cube, cuboid & Cylinder	to derive Surface area of solids		
Chapter 9	Surface Area of Cube, Cuboid and Cylinder	Calculate the volume of a given cube, cuboid, cylinder and		

