



First Term Curriculum
Subject- Mathematics
Class –VIII
Session: 2026-27

Month	APRIL	MAY	JUNE	JULY
Concepts	Ch-1 Rational Numbers Ch-2 Squares and Square Roots	Ch-2 Squares and Square Roots(Contd.) C-3 Cube and Cube Roots Ch-4 Exponents	Ch-4 Exponents(Contd.) Ch-14 Playing with numbers	Ch-5 Algebraic Expressions Ch-6 Linear equation in one variables
Learning Outcomes	Students will be able <ul style="list-style-type: none"> To generalize the properties of arithmetic operations of rational numbers. To represent rational numbers on the number line. To calculate as many rational numbers as possible between two given rational numbers. To explain the properties of a perfect square. To find Pythagorean triplets. 	Students will be able <ul style="list-style-type: none"> To find the square root of a number. To explain the properties of a perfect cubes. To find the cube root of a perfect cube. To explain the laws of exponents for rational numbers. To find the expanded and standard form of numbers. 	Students will be able <ul style="list-style-type: none"> To express very small numbers in standard form. To explain the divisibility of numbers. 	Students will be able <ul style="list-style-type: none"> To express types of expressions and terms. To add, subtract, multiply and divide algebraic expressions. To factorize algebraic expressions. To apply the general rule for finding the solution of a linear equation. To solve and apply linear equations. To find solutions of equations.
Skills	Logical and Analytical Thinking/Numeracy and Computational Skills	Logical and Analytical Thinking/Numeracy and Computational Skills/Academic and Life Skills	Logical and Analytical Thinking/Numeracy and Computational Skills/Personal Development	Logical and Analytical Thinking/Numeracy and Computational Skills

Activities	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Numbers in our routine ● Square Hunt Integrated (Interdisciplinary Links) Science , Geography and Economics	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Cube Quest ● Expressing the Extraordinary Integrated (Interdisciplinary Links) Science and Economics	Competency-skills based activity/ Experiential learning activity : Art Integrated Project Himachal Pradesh and pair state (Integration with Science, English, Hindi and Art)	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Verification of algebraic Identities ● Equations in real life Integrated (Interdisciplinary Links) Science , computer and Economics
Assessments	<ul style="list-style-type: none"> ● Pen - Paper Test ● Quiz/Questionnaire ● Notebook Maintenance ● CW/HW Assignment Main Book: Cambridge Maths Milestone Publisher: Cambridge University Press (Updated Edition)			



Month	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER/ JANUARY
Concepts	<p>Ch-7 Understanding Shapes</p> <p>Ch-15 3D visualization</p> <p>Ch-8 Perimeter and Area of Plane figures</p>	<p>Ch-8 Perimeter and Area of Plane figures (continued)</p> <p>Ch-9 Surface Areas and Volumes</p>	<p>Ch-9 Surface Areas and Volumes (continued)</p>	<p>Ch-10 Comparing Quantities</p> <p>Ch-11 Direct and Inverse Proportions</p>	<p>Ch-12 Data handling</p> <p>Ch-13 Graphs</p> <p>Ch-16 Construction of Quadrilaterals</p>
Learning Outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To explain angle sum property for polygons. To explain the properties of quadrilaterals. To explain polyhedrons and types of polyhedrons. To apply Euler's formula. To find the area and perimeter of basic Shapes. To find the area and perimeter of a trapezium and a rhombus. 	<p>Students will be able</p> <ul style="list-style-type: none"> To find the area and perimeter quadrilaterals. To find the area of polygons. To find the surface area and volume of a cube and cuboid. 	<p>Students will be able</p> <ul style="list-style-type: none"> To find the surface area and volume of a cylinder. 	<p>Students will be able</p> <ul style="list-style-type: none"> To recapitulate ratio and percentage. To explain profit, loss and discount percentage. To Explain VAT and GST. To apply formulae for simple and compound interest. To learn about direct and inverse proportion. To solve word problems. 	<p>Students will be able</p> <ul style="list-style-type: none"> To learn about Frequency distribution of grouped and ungrouped data. To draw and read histograms and pie charts. To learn about Probability. To explain coordinates of a point. To construct different types of quadrilaterals.
Skills	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills/Personal Development	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills/Personal Development	Logical and Analytical Thinking/Numeracy and Computational Skills/Academic and Life Skills/Personal Development	Logical and Analytical Thinking/Numeracy and Computational Skills/Spatial and Visual Understanding/Academic and Life Skills/Personal Development

Activities	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Angle sum property ● Exploring Euler's Formula Integrated (Interdisciplinary Links) Art and Design, Geography, & Computer	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Room Renovation Math Integrated (Interdisciplinary Links) Agriculture , Geography and Art	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● 3D Shapes Exploration. Integrated (Interdisciplinary Links) Agriculture , Geography and Art	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Inflation Explorer ● Socio – Economic Data Analysis. Integrated (Interdisciplinary Links) Economics and Daily life	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Pie Chart Exploration ● Graphing our world Integrated (Interdisciplinary Links) Science , Geography and computer science
Assessments	<ul style="list-style-type: none"> ● Pen - Paper Test ● Quiz/Questionnaire ● CW/HW Assignment ● Notebook Maintenance Main Book: Cambridge Maths Milestone Publisher: Cambridge University Press (Updated Edition)				