

Month	APRIL	MAY	JUNE	JULY
Concepts	Ch-1 Integers Ch-2 Fractions and Decimals	Ch-2 Fractions and Decimals (Contd.) Ch-3 Rational Numbers	Ch-4 Exponents Ch-5 Algebraic expressions	Ch-6 Linear expression in one variable
Learning Outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To define Integers and its representation on the number line. To apply mathematical operators on integer number systems. To explain the properties of integers under four operations. To apply the concept of integers in daily life context. To multiply and divide fractions. To solve word problems involving mixed fractions.. 	<p>Students will be able</p> <ul style="list-style-type: none"> To explain decimals and their expanded notations. To perform four operations on decimal numbers. To explain the properties of rational numbers. To compare rational numbers. To perform four operations on rational numbers. To solve word problems. 	<p>Students will be able</p> <ul style="list-style-type: none"> To explain and apply the laws of exponents. To explain the standard form of numbers. To express different types of algebraic expressions. To add and subtract algebraic expressions. To find the value of algebraic expressions. 	<p>Students will be able</p> <ul style="list-style-type: none"> To frame equations in one variable. To convert a statement to an equation and vice-versa. To construct and solve an equation.
Skills	Logical and Analytical Thinking/Numeracy and Computational 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/Academic and Life Skills/Personal Development

Activities	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Rise and Fall Tracker Integrated (Interdisciplinary link) Science , Economics and Geography	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"> ● Crowd Density Analysis ● Expression Expedition Integrated (Interdisciplinary link) Science ,Economics and computer	Competency-skills based activity/ Experiential learning activity : <ul style="list-style-type: none"> ● Linear equation Scavenger Activity Integrated (Interdisciplinary link) Science ,Economics and computer
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	Ch-7 Lines and angles Ch-8 Triangles	Ch-8 Triangles (Contd.) Ch-14 Congruence of triangles	Ch-9 Symmetry Ch-10 3 D Visualization Ch-11 Perimeter and area	Ch-11 Perimeter and area(Contd.) Ch-12 Comparing Quantities.	Ch-15 Constructions Ch-13 Data handling and probability
Learning Outcomes	Students will be able <ul style="list-style-type: none"> To explain the types of lines and angles. To find relationships between angles. To explain the altitude and median of a triangle. 	Students will be able <ul style="list-style-type: none"> To apply angle sum property (both interior and exterior) of a triangle. To Explain and apply Pythagoras theorem. To explain congruence of triangles under the criteria (SSS, SAS, ASA, RHS, AAS). To find the perimeter and area of congruent figures. 	Students will be able <ul style="list-style-type: none"> To find lines of symmetry in regular polygons. To explain rotational symmetry. To find vertices, edges and faces and nets of 3D shapes. To draw and visualize solid shapes. To find the perimeter and area of a square, rectangle, triangle and a parallelogram. 	Students will be able <ul style="list-style-type: none"> To find the area of path, semicircle and between concentric circles. To recall ratio, proportion and unitary method. To convert fraction numbers and decimals to percentage and vice-versa. To explain profit or loss and Simple Interest. 	Students will be able <ul style="list-style-type: none"> To visualize 3 D objects. To construct Parallel lines. To construct angles under congruence criteria. To organize data. To find range, mean, mode and median. To draw bar graphs and double bar graphs. To find the probability of given numbers.
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	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/Spatial and Visual Understanding/Academic and Life Skills/Personal Development

Activities	Competency-skills based activity/ Experiential learning Activity: <ul style="list-style-type: none"> ● Alphabet Activity Integrated (Interdisciplinary link) Art ,Science ,Economics and computer	Competency-skills based activity/ Experiential learning Activity: <ul style="list-style-type: none"> ● Altitude Adventure ● Crossword Puzzle Integrated (Interdisciplinary link) Science , Geography ,Art and computer	Competency-skills based activity/ Experiential learning Activity: <ul style="list-style-type: none"> ● Monument Activity ● Shadow Activity Integrated (Interdisciplinary link) Science , Geography ,Art and computer	Competency-skills based activity/ Experiential learning Activity: <ul style="list-style-type: none"> ● Paving back Courtyard Activity ● Growth rate Trek Activity Integrated (Interdisciplinary link) Science , Economics ,Art and computer	Competency-skills based activity/ Experiential learning Activity: <ul style="list-style-type: none"> ● Melodic Geometry ● Co-Curricular Bar Graph Activity Integrated (Interdisciplinary link) Science , Geography ,Art and computer
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)				