

CONTINUOUS LEARNING PROCESS (CLP)

CLASS VII

MATHEMATICS

S. No.	Month	Chapter	Learning Outcome
1	April	Ch. 1 Integers	<p>The Learner:</p> <ul style="list-style-type: none">• Identifies the integers using a number line• Generalizes the commutative, associative, closure and distributive properties of integers• Finds out the addition, subtraction, multiplication and division of integers <p><u>Skills</u> : Aesthetic skills, Creative thinking, Thinking skills.</p>
2	May	Ch. 2 Fractions and Decimals Ch. 14 Symmetry	<p>The Learner:</p> <ul style="list-style-type: none">• Understands the fractions• Learns about the like, equivalent, proper, improper and mixed fractions• Verifies the multiplication and division of fractions• Learns how to convert fractions into decimals <p><u>Skills</u> : Reasoning, Critical thinking, Observation.</p> <p>The Learner:</p> <ul style="list-style-type: none">• Finds Symmetry in nature• Explores various symmetrical objects in the surroundings• Applies Line of Symmetry in various objects <p><u>Skills</u> : Analysis, Creative thinking, Logical thinking.</p>
3	July	Ch. 5 Lines and Angles	<p>The Learner:</p> <ul style="list-style-type: none">• Learns about various types of angles• Verifies the properties of linear pair & vertically opposite angles• Learns a new geometrical concept of parallel lines• Draws the corresponding \angles, alternate interior \angles, consecutive interior \angles <p><u>Skills</u> : Drawing skills, Creativity, Knowledge of angles.</p>
4	August	Ch. 9 Rational Numbers	<p>The Learner:</p> <ul style="list-style-type: none">• Defines Rational numbers

		Ch. 3 Data Handling	<ul style="list-style-type: none"> Analyses the properties of addition, subtraction, multiplication and division of rational numbers Finds out desired no. of rational numbers between two given rational numbers Represents rational number on a number line <p><u>Skills</u> : Aesthetic skills, Critical thinking and Analysis.</p> <p>The Learner:</p> <ul style="list-style-type: none"> Generalizes the usage of data and its organisation Defines Range, Arithmetic Mean, Median and Mode Learn the formula to compute Range, Mean, Median & Mode Represents Bar Graph and Double Bar Graph using given data <p><u>Skills</u> : Critical thinking, Analysis, Interpretation.</p>
5	September	Ch. 6 The Triangle and its Properties	<p>The Learner:</p> <ul style="list-style-type: none"> Defines Median and Altitude of a Triangle Proves the Exterior Angle property and Angle Sum property of a Triangle Learns about two special triangles – Isosceles & Equilateral Practically proves that the sum of lengths of two sides of a triangle is greater than the third side Learns how to use Pythagoras theorem in a Right Angled triangle <p><u>Skills</u> : Critical thinking, Logical thinking, Imagination.</p>
6	October	Ch. 4 Simple Equations Ch. 10 Practical Geometry	<p>The Learner:</p> <ul style="list-style-type: none"> Defines equation in one variable Finds solution of the simple equations Verifies the solutions Applies the concept in solving the Word Problems based on real-life situations <p><u>Skills</u> : Logical thinking, Problem solving.</p> <p>The Learner:</p> <ul style="list-style-type: none"> Constructs Parallel line to a given line Constructs different types of triangles using given elements

			<ul style="list-style-type: none"> Learns the usage of ruler, compass and protractor <u>Skills</u> : Drawing skills, Identification , Creative thinking.
7	November	Ch. 7 Congruence of Triangles Ch. 11 Perimeter and Area	The Learner: <ul style="list-style-type: none"> Defines Congruency Learns Congruence of figures, line segments, angles and triangles Applies the congruency in triangles using SAS, SSS, ASA and RHS <u>Skills</u> : Analysis, Observation, Critical thinking. The Learner: <ul style="list-style-type: none"> Identifies the plane figures Verifies the area of triangle and parallelogram Verifies the circumference and area of a circle Learns how to convert the units <u>Skills</u> : Observation, Logical thinking, Computational skills, Identification
8	December	Ch. 8 Comparing Quantities	The Learner: <ul style="list-style-type: none"> Recalls ratios and percentage Learns Increase or Decrease percent Applies percentage to Profit and Loss Learns the concept of Simple Interest <u>Skills</u> : Critical thinking, Computational skills.
9	January	Ch. 12 Algebraic Expressions Ch. 15 Visualising Solid Shapes	The Learner: <ul style="list-style-type: none"> Defines Coefficients, Terms and Expression Learns about Monomials, Binomials, Trinomials and Polynomials Applies addition and subtraction to the expressions <u>Skills</u> : Analysis, Application, Thinking skills. The Learner: <ul style="list-style-type: none"> Recognises 2D and 3D shapes Identifies different shapes in nested objects Represents 3D shapes on a plane surface Practically learns the ‘Shadow play’ technique <u>Skills</u> : Observation, Power of imagination.