

***Love Dale Central School*****Curriculum 2022-23**

Sub: Maths

Class : VIII

Month	Book	Chapter/Lesson title	Topics	Activity	Learning Outcome
April	NCERT	Rational numbers	1. Operations on rational numbers. 2. representation of Rational numbers on the number line	Lab Activity: Representing rational numbers on number line.	1. Find rational numbers between any two rational numbers. 2. Represent rational numbers on number line.
June	NCERT	Linear equations in one variable	1. Solving linear equations in one variable. 2. Framing equations.	1. Review the methods of solving linear equations in one variable. 2. Apply the knowledge in solving real life situations.	1. Review the methods of solving linear equations in one variable. 2. Apply the knowledge in solving real life situations.
June/July	NCERT	Comparing quantities	1. Percentage. 2. Profit and loss. 3. Discount. 4. Compound interest	Finding simple interest, Discount, VAT etc. in real life situations	1. Apply the knowledge of percentage, discount, profit, loss, etc. in their day to day life situations.
July	NCERT	Practical Geometry	1. Construction of quadrilaterals.		1. Construct different types of quadrilaterals. 2. Find the unknown measure.
August	NCERT	Data Handling	1. Bar graph. 2. Double bar graph. 3. pie chart.	Pie chart	1. Represent grouped data through bar graphs. 2. Collect and organize data and present it in the form of frequency distribution table.
September	NCERT	Squares and square roots	1. Square numbers or perfect squares. 2. Properties of square numbers. 3. Finding square roots.	Finding square root of 2 and 3.	1. use properties of square numbers to solve the sums. 2. find square root by division method
October	NCERT	Cubes and cube roots	1. Cube numbers or perfect cubes. 2. Properties of cube numbers. 3. Finding cube roots.		1. find cube root by prime factorization method. 2. list properties of cubes of natural numbers.
October	NCERT	Understanding Quadrilaterals	1. Curves. 2. polygons. 3. properties of quadrilaterals.	Fold a paper 8 times in any way, Unfold and locate various convex and concave polygons.	1. learn properties of parallelogram, rhombus, kite etc. 2. classify the polygons. 3. use the properties to find interior and exterior angles of the given polygon.

November	NCERT	Algebraic Expressions and Identities	1.Fundamental concepts. 2.Operations on algebraic expressions. 3.Identities.	To verify the following algebraic identity by paper cutting and pastings, $((a+b))^2$	1.Using the distributive law carry out the multiplication term by term. 2.Apply identities to solve the expressions.
November	NCERT	Visualizing solid shapes	1.Views of 3-D shapes. 2.Polyhedron. 3.Euler's formula.	Collect models of pyramids and prisms and verify Euler's formula for each.	1.Recognise 2D and 3D objects. 2.Apply Euler's formula to find out different polyhedrons. 3.use map while travelling.
December	NCERT	Mensuration	1.Area and perimeter of plane figures. 2.Areas of quadrilateral and polygons. 3.Volume of solids	Activity :finding area of Tapezium	1.Recall formulas to find TSA,LSA and volume of the cube ,cuboid and cylinder. 2.Convert the values according to the requirement.(1l=1000[cm]^3 etc)
January	NCERT	Exponents & Powers	1.Powers with negative exponents. 2.Laws of exponent. 3. To express small numbers in standard form	Laws of exponent chart.	1.list out laws of exponents. 2.compare large and small numbers. 3.solve sums powers with negative exponents
January	NCERT	Direct & Inverse Proportions	1.Direct proportion and sums. 2.Inverse proportion and sums	To deduce direct variation:Cut 5 circles of different radii from different colored paper and paste them on a card sheet.and find Diameter and circumference .check whether they are direct proportion.	1.Solve a real life simple problem by using unitary method. 2.use the knowledge of variation and its types to solve day to day life situations.
February	NCERT	Factorisation	1.Factirising by grouping terms. 2.Using identities. 3.Division of polynomials.		1.Factorise using identities. 2.lis out different methods of finding the factors of an algebraic expressions.
February	NCERT	Introduction to graphs	1.Coordinate system. 2.Plotting graph.	Write how much timeyou spent during a day in the following Headings 1.school, 2.home work,3play,4.sleep5.watching T.V 6.others.Represent the informationin a pie chart.	1.Plot points and graphs for different kind of situations like perimeter Vs length for square etc. 2.Read linear graphs, distance Vs time graphs.
March	NCERT	Playing with Numbers	1.Tests of divisibility. 2.Number puzzle and game	1.solve puzzles and games and deduce the divisibility rules.	1.solve puzzles and games and deduce the divisibility rules.