

	FEBRUARY /MARCH	APRIL	MAY	JUNE
Concepts	<ul style="list-style-type: none"> Rational Numbers Linear equation in One Variable Exponents and Powers 	<ul style="list-style-type: none"> Exponents and Powers(contd.) Visualising Solid Shapes Algebraic Expressions and Identities 	<ul style="list-style-type: none"> Algebraic Expressions and Identities(contd.) Squares and Square Roots Cubes and Cube Roots 	<ul style="list-style-type: none"> Cubes and Cube Roots(contd.) Comparing Quantities
Learning Outcomes	<p>Students will able to:</p> <ul style="list-style-type: none"> Define the properties of rational numbers Plot the rational numbers on number line Find rational numbers between two given rational numbers Learn the concept of multiplicative and additive identities <p>ACTIVITY:</p> <p>> Group Activity: Number Line Students created number line using flash cards in the class (before Lockdown)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Knows the difference between the algebraic expression and equation Form linear equations Solve the linear equations Simplify the complex linear equations Analyse the given problem, form the equation and find its solution <p>ACTIVITY:</p> <p>> Flash cards: Linear equations (Students created Flashcards to the different linear equations and their solutions)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Understand laws of exponents 	<ul style="list-style-type: none"> Apply the laws of exponents for evaluating positive and negative components Develop the ability to analyze and differentiate between various laws of exponents Compare very small and very large numbers Perform numerical skills like simplification using laws and develop critical thinking and collaboration in the process <p>Students will able to:</p> <ul style="list-style-type: none"> Identify the faces and edges Understand the use of Euler's formula Identify the shapes <p>Activity: Short videos (prepared by Teachers/Students) Short videos were prepared by the teachers to elaborate the concept of shapes and students also prepared the videos as a part of recapitulation of the topic(during lockdown)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Frame expressions Add, subtract and multiply algebraic expressions 	<ul style="list-style-type: none"> Find the value of algebraic expression Apply identities <p>Videos shown for reference:</p> <p>> https://youtu.be/qyJPzAdVOW8</p> <p>> https://youtu.be/Nn_hTcN8iAs</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Define the Square numbers Define properties of Square numbers Find the square roots by Prime factorization Find the square roots by long division <p>Videos shown for reference:</p> <p>> https://youtu.be/aBs8Wcl8Log</p> <p>></p> <p>Students will able to:</p> <ul style="list-style-type: none"> Define what is Cube root Define the properties of Cube root 	<p>Students will able to:</p> <ul style="list-style-type: none"> Find Cube root by Prime Factorization Solve the problem sums concerning Cube root Find Cube root by Estimation <p>Students will able to:</p> <ul style="list-style-type: none"> Calculate increase and decrease percentage Find profit, loss, cost price and selling price Find the simple interest and amount Find Compound interest and amount <p>Videos shown for the reference</p>
Assessment	<ul style="list-style-type: none"> Online Assessment Quiz/Questionnaire HW Updates Online Assignment Subject Enrichment: Online Quiz <p>Main Book: NCERT Resource : DIKSHA App</p>			

	JULY/AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Concepts	<ul style="list-style-type: none"> Direct and Inverse Proportions Data Handling 	<ul style="list-style-type: none"> Mensuration Factorisation 	<ul style="list-style-type: none"> Understanding Quadrilaterals Practical Geometry 	<ul style="list-style-type: none"> Introduction to Graphs
Learning Outcomes	<p>Students will able to:</p> <ul style="list-style-type: none"> Learn the variations in quantities Dependence of one quantity over another Videos shown for reference: <p>➤ https://youtu.be/kuvdMCDqmKg</p> <p>ACTIVITY:</p> <p>➤ Individual Activity (Students created a table comparing the area and perimeter of given figures in proportion)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Define the terms like frequency and class interval Represent the data using bar graphs and Histogram Represent the data in pie charts Explain the meaning and concept of probability Apply and solve the questions of probability <p>ACTIVITY:</p> <p>➤ Double doodle (Students performed Double doodle activity and represent the data in Histogram in the online class)</p> <p>➤ Pie Chart making using a paper circle (Students will create a paper model of pie chart in the online class)</p>	<p>Students will able to:</p> <ul style="list-style-type: none"> Find the area of polygon like trapezium Find the area and volume of solid shapes Finds surface area and volume of cuboidal and cylindrical shapes <p>ACTIVITY:</p> <p>➤ Proving the area of Trapezium (Students will prove the area of Trapezium equal to half the product of its altitude and sum of its parallel sides in the online class)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Divide polynomials Apply identities to find factors Use middle term method of factorization <p>ACTIVITY:</p> <p>➤ Grid Paper (students will use grid paper to represent a polynomial and its factorization in the online class)</p>	<p>Students will able to:</p> <ul style="list-style-type: none"> Define Concave and Convex polygons Define regular and irregular polygons Define and apply the angle sum property Apply the properties of parallelograms and solve the questions <p>ACTIVITY:</p> <p>➤ Proving the angle sum property of quadrilaterals (Students will prove the angle sum property of quadrilateral that the sum of all interior angle of a convex quadrilateral is always 360 degrees)</p> <p>Students will able to:</p> <ul style="list-style-type: none"> Construct a quadrilateral when four sides and one diagonal is given Construct a quadrilateral when three sides and two diagonal is given Construct a quadrilateral when two adjacent sides and two included angles are given Construct a quadrilateral when other special properties are known <p>ACTIVITY:</p> <p>➤ Construction practice the (Students will construct quadrilaterals using cutting and pasting of paper)</p>	<p>Students will able to:</p> <ul style="list-style-type: none"> Plot the coordinates Represent the data in line graphs Interpret the data in graphs <p>ACTIVITY:</p> <p>➤ Plotting Points in Cartesian Plane (Students will plot the points in Cartesian plane as per the data provided to them)</p>
Assessment	<ul style="list-style-type: none"> Online Assessment Quiz/Questionnaire Online Assignment HW Updates Subject Enrichment: Art Integration Project(Math: Data Handling/Science: Sound) <p>Main Book: NCERT Resource : DIKSHA App</p>			