

Cambridge International School
Mohal, Kullu
Class –IX
Subject- Mathematics
First Term Curriculum
Session – 2020-21

	FEB	MARCH	APRIL	MAY	JUNE
Content	Ch. 1 Numbers Systems	Ch.2 Polynomials Ch.3 Coordinate Geometry Ch. 4 Linear Equations in two variables	Ch. 4 Linear Equations in two variables (Contd.) Ch. 5 Introduction to Euclid's Geometry(not in the syllabus)	Ch. 6 Lines and Angels Ch. 7 Triangles	Ch. 7 Triangles (contd.) Ch.8 Quadrilaterals
Learning Outcomes	<ul style="list-style-type: none"> Representati on of rational and irrational numbers on the number line. Constructin g square root spiral. Comprehen d the term rationalizing of the denominato r along with rationalizing factor. Apply Laws of Exponents for Real Numbers <p>Activity: To construct a square root spiral(Lab Manual) (Students made square root spiral by using protractor)</p>	<ul style="list-style-type: none"> Identify polynomials and key terminology used with polynomials. Classification of polynomials. Apply Remainder and Factor theorem. Factorization of polynomials by using algebraic identities. <p>Activity: To verify the algebraic identities(Lab Manual)(using graph paper)</p> <ul style="list-style-type: none"> Interprets Cartesian System and plotting a point in the plane. <p>Activity: To find the values of abscissa and ordinates of various points given in a Cartesian plane. (Lab Manual)</p> <ul style="list-style-type: none"> Explore linear equation in two variables. 	<ul style="list-style-type: none"> Draw the graph of a Linear Equation in Two Variables related to real life situation. <ul style="list-style-type: none"> Define Euclid's Definitions, Axioms and Postulates. <p>Link: https://youtu.be/AUcdPqFnT8Q</p> <p>https://youtu.be/CYQps3_1-H0</p>	<ul style="list-style-type: none"> Recognize pair of angles and classify them. Apply angle sum property and exterior angles sum property to solve problems. <p>Link: https://youtu.be/aGejx2fRCHU</p> <ul style="list-style-type: none"> Develop and understanding Congruence of Triangles. 	<ul style="list-style-type: none"> Recognize inequality's in triangle. <p>Activity: Mid-point Theorem, paper folding and cutting (Lab manual)</p> <ul style="list-style-type: none"> Recognize the properties of parallelogram. Apply midpoint theorem
Assessment	<ul style="list-style-type: none"> Online Assessment On line assignments HW Updates Lab Activity/Project 				

	JULY/AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Content	Ch. 10 Circles	Ch.11 Constructions Ch.12 Heron's Formula	Ch.13 Surface area and Volume	Ch. 14 Statistics Ch.15 Probability
Learning Outcomes	<ul style="list-style-type: none"> Describe circles and its Related Terms. Demonstrates angles Subtended by a Chord and an Arc and perpendicular from the Centre to a Chord. Describe circle through Three Points and cyclic Quadrilaterals. <p>Activity: Angle subtended by an arc of a circle at the center is double the angle subtended by it at any point on the remaining part of the circle using. (Lab Manual)</p>	<ul style="list-style-type: none"> Constructions of triangles Identify and apply heron's formula in finding areas of polygon. Area of a triangle by Hero's Formula Application of Heron's Formula in finding Area of Quadrilaterals Summary 	<ul style="list-style-type: none"> Describe surface Area of a Cuboid, Right circular cylinder and cone, a Cube and sphere. Formulate volume of a Cuboid, cylinder, right circular cone and sphere. <p>Activity: To form a cone from a sector of a circle and to find the formula for its curved surface area. (Lab Manual)</p>	<ul style="list-style-type: none"> Representation of data Graphical. Demonstrates of measures of Central Tendency <p>Activity: To draw histograms for classes of equal widths by collecting data from day to day life such as heights of students. (Lab Manual)</p> <ul style="list-style-type: none"> Describe Probability and apply Experimental Approach <p>Activity: Individual Activity of dice to find experimental probability of each outcome of a die when it is thrown a large number of times. (Lab Manual)</p>
Assessment	<ul style="list-style-type: none"> Online Assessment HW updates ON line assignments Lab Activity/Project 			

Art integrated Project: Pookkalam (floral carpet) (Contains various geometrical figures)

e-Diksha app is taken into consideration.