Cambridge INTERNATIONAL SCHOOL KULLU

First Term Curriculum
Subject: Mathematics
Class: VIII
Session: 2024-25

Month	APRIL	MAY	JUNE	JULY
Concepts	**Ch-1** Rational Numbers **Ch-2** Squares and Square Roots	**Ch-2** Squares and Square Roots(Contd.) **C-3** Cube and Cube Roots **Ch-4** Exponents	**Ch-4** Exponents(Contd.) **Ch-5** Playing with numbers	**Ch-6** Algebraic Expressions **Ch-7** Linear equation in one variables
Learning Outcomes	**Students will be able** ● To generalize the properties of arithmetic operations of rational numbers. ● To represent rational numbers on the number line. ● To calculate as many rational numbers as possible between two given rational numbers. ● To understand the properties of a perfect square. ● To find Pythagorean triplets.	**Students will be able** To find the square root of a number. ● To understand the properties of a perfect cubes. ● To find the cube root of a perfect cube. ● To understand the laws of exponents for rational numbers. ● To find the expanded and standard form of numbers. .	**Students will be able** ● To express very small numbers in standard form. ● To understand the divisibility of numbers.	**Students will be able** ● To express types of expressions and terms. ● To add, subtract, multiply and divide algebraic expressions. ● To factorize algebraic expressions. ● To apply the general rule for finding the solution of a linear equation. ● To solve and apply linear equations. ● To find solutions of equations.
Skills	Understanding/ Application/Critical thinking/ Problem solving	Understanding/ Application/Critical thinking/ Problem solving	Understanding/ Application/Critical thinking/ Problem solving	Understanding/ Application/Critical thinking/ Problem solving
Activities	**Competency-skills based activity/ Experiential learning activity :** ● Flash Cards ● Vedic Math Activity	**Competency-skills based activity/ Experiential learning activity :** ● Vedic Math to find the cube ● Flash card	**Competency-skills based activity/ Experiential learning activity :** ● Math Magic (Ages, dates and shoe sizes of family members)	**Competency-skills based activity/ Experiential learning activity :** ● Verification of algebraic Identities. ● Flash Cards
Art Integration	English, Science, Social Study and Art			
Assessments	● Pen - Paper Test ● Quiz/ Questionnaire ● Notebook Maintenance ● C.W./ H.W./ Assignments **Main Book: 'I Did It' Mathematics** **Publisher: Cambridge University Press (Revised Edition)**			

Final Term Curriculum
Subject: Mathematics
Class: VIII
Session: 2024-25

Month	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Concepts	**Ch-8** Understanding Shapes **Ch-9** 3D visualization	**Ch-10** Construction of Quadrilaterals **Ch-11** Perimeter and Area of Plane figures	**Ch-11** Perimeter and Area of Plane figures (Contd.) **Ch-12** Surface Area and Volume	**Ch-13** Comparing Quantities **Ch-14** Direct and Inverse Variation	**Ch-15** Data handling and Probability **Ch-16** Graphs
Learning Outcomes	**Students will be able** • To understand angle sum property for polygons. • To understand the properties of quadrilaterals. • To understand polyhedrons and types of polyhedrons. • To apply Euler's formula.	**Students will be able** • To construct different types of quadrilaterals. • To find the area and perimeter of a trapezium and a rhombus.	**Students will be able** • To find the area of polygons. • To find the surface area and volume of a cube and cuboid. • To find the surface area and volume of a cylinder.	**Students will be able** • To recapitulate ratio and percentage. • To understand GST and discount percentage. • To apply formulae for simple and compound interest. • To learn about direct and inverse proportion. • To solve word problems.	**Students will be able** • To learn about • Frequency distribution of grouped and ungrouped data. • To draw and • read histograms and pie charts. • To learn about • Probability. • To understand coordinates of a point.
Skills	Understanding/ Application/ Critical thinking/ Problem solving	Understanding/ Application/ Critical thinking/ Problem solving	Understanding/ Application/ Critical thinking/ Problem solving	Understanding/ Application/ Critical thinking/ Problem solving	Understanding/ Application/ Critical thinking/ Problem solving
Activities	**Competency-skills based activity/ Experiential learning activity :** • Angle sum property • Verification of Euler's Formula	**Competency-skills based activity/ Experiential learning activity :** • Constructions • Slips of questions (Perimeter and Area)	**Competency-skills based activity/ Experiential learning activity :** • Derivation of the formulae of a cuboid • Chart Paper Activity (Graph)	**Competency-skills based activity/ Experiential learning activity :** • Bill Activity • Paper Activity (Direct Variation)	**Competency-skills based activity/ Experiential learning activity :** • Experimental and theoretical probability • Coordinate Activity
Art Integration	English, Science, Social Study and Art				
Assessments	• Pen - Paper Test • Quiz/Questionnaire • C.W./ H.W./ Assignments • Notebook Maintenance **Main Book: 'I Did It' Mathematics** **Publisher: Cambridge University Press (Revised Edition)**				