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

Month	APRIL	MAY	JUNE	JULY
Concepts	**Ch-1** Integers **Ch-2** Fractions and Decimals	**Ch-2** Fractions and Decimals **(Contd.)** **Ch-3** Rational Numbers	**Ch-4** Exponents **Ch-5** Algebraic expressions	**Ch-6** Linear expression in one variable
Learning Outcomes	**Students will be able** ● To define Integers and its representation on the number line. ● To apply mathematical operators on integer number systems. ● To understand the distributive property of integers under multiplication and addition. ● To apply the concept of integers in daily life context. ● To analyze and arrange decimals on the number line. ● To convert decimals as fractions and vice- versa and its comparison.	**Students will be able** ● To perform the arithmetic operations with Decimals (addition and subtraction). ● To solve the word problems of Decimals. ● To understand the properties of rational numbers. ● To compare rational numbers. ● To represent a rational number on a number line. ● To apply arithmetic operations on rational numbers.	**Students will be able** ● To understand and apply the laws of exponents. ● To understand the standard form of numbers. ● To express different types of algebraic expressions. ● To add and subtract algebraic expressions. ● To find the value of algebraic expressions.	**Students will be able** ● To frame equations in one variable. ● To convert a statement to an equation and vice-versa. ● To construct and solve an equation.
Skills	Understanding/ Application/Critical thinking/ Problem solving	Understanding/ Application/Critical thinking/ Problem solving/Analysis	Understanding/ Application/Critical thinking/ Problem solving	Understanding/ Application/Critical thinking/ Problem solving/Analysis/Synthesis
Activities	**Competency-skills based activity/ Experiential learning activity :** ● Flash Card Activity	**Competency-skills based activity/ Experiential learning activity :** ● Jodo Gyan Activity ● Representation of rational number on number line	**Competency-skills based activity/ Experiential learning activity :** ● Chinese whisper ● Visual algebra activity	**Competency-skills based activity/ Experiential learning activity :** ● Paper activity
Art Integration	**English, Science, Sport 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: VII
Session: 2024-25

Month	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Concepts	**Ch-7** Lines and angles **Ch-8** Triangles	**Ch-8** Triangles **(Contd.)** **Ch-9** Congruence of triangles	**Ch-10** Symmetry **Ch-11** 3 D Visualization **Ch-13** Perimeter and area	**Ch-13** Perimeter and area **(Contd.)** **Ch-14** Comparing Quantities.	**Ch-12** Construction **Ch-15** Data handling and probability
Learning Outcomes	**Students will be able** ● To understand the types of lines and angles. ● To find relationships between angles. ● To understand the altitude and median of a triangle.	**Students will be able** ● To apply angle sum property (both interior and exterior) of a triangle. ● To understand and apply Pythagoras theorem. ● To understand congruence of triangle under the criteria (SSS, SAS, ASA, RHS, AAS). ● To find the perimeter and area of congruent figures.	**Students will be able** ● To find lines of symmetry in regular polygons. ● To understand rotational symmetry. ● To find the perimeter and area of a square, rectangle, triangle and a parallelogram.	**Students will be able** ● To find the circumference of a circle. ● To recall ratio, proportion and unitary method. ● To convert fraction numbers and decimals to percentage and vice-versa. ● To understand profit or loss and Simple Interest.	**Students will be able** ● To visualize 3 D objects. ● To construct Parallel lines. ● To construct angles under congruence criteria. ● To organize data. ● To find range ,mean, mode and median. ● To draw bar graphs and double bar graphs. ● To find probability of given numbers.
Skills	Understanding/ Application/Critical thinking/ Problem solving/Analysis/ Synthesis	Understanding/ Application/Critical thinking/ Problem solving/Analysis	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 :** ● Passing the parcel	**Competency-skills based activity/ Experiential learning Activity:** ● Pythagoras theorem activity ● Paper folding (Verification of Congruence **)**	**Competency-skills based activity/ Experiential learning Activity :** ● 3D visualization(Isometric Sheets)	**Competency-skills based activity/ Experiential learning Activity :** ● Verification of the value of pi ● Business Activity	**Competency-skills based activity/ Experiential learning Activity** ● Bar Graph Activity
Art Integration	**English, Science, Sport 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)**				