

First Term Curriculum
Session – 2022-23
Subject- Mathematics
Class –VII

	FEBRUARY/MARCH	APRIL	MAY	JUNE
Concepts	Ch.1 Integers Ch.2 Fractions and Decimals	Ch.3 Rational Number Ch.4 Exponents Ch.11 3D Visualisation	Ch.5 Algebraic expression Ch.6 Linear expression in one variable.	Ch.7 Lines and angles Ch.8 Triangles
Learning Outcomes	Students will be able <ul style="list-style-type: none"> 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 integer in daily life context. Analyze and arrange decimals on the number line. Present decimals as fractions and vice- versa and its comparison. Perform the arithmetic operations with Decimals (addition and subtraction) Solve the word sums of Decimals. 	Students will be able <ul style="list-style-type: none"> 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. To learn about exponential form To understand and apply the law of exponents To understand the standard form of numbers. To learn about faces ,Edges, Vertices and nets of 3 D objects. 	Students will be able <ul style="list-style-type: none"> To express different types of algebraic expressions. To add and subtract algebraic expressions. To find the value of algebraic expression To learn about equations in one variable. To convert a statement to an equation and vice-versa. To construct and solve an equation 	Students will be able <ul style="list-style-type: none"> To understand the types of lines and angles. To learn about relationships between angles. To understand the altitude and median of a triangle. To apply angle sum property (both interior and exterior) of a triangle. To understand and apply Pythagoras theorem.
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 : <ul style="list-style-type: none"> Flash Card Jodo Gyan 	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> Paper Activity (Equivalent rational numbers) Paper Folding Art integrated project (School magazine) 	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> Pattern using algebraic Expressions Lab manual 	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> Tracing paper activity (Verify Vertically opposite angles are equal) Lab Manual
Assessments	<ul style="list-style-type: none"> Pen - paper Test Quiz/Questionnaire Notebook Maintenance CW/HW Assignment Main Book: 'I Did It' Mathematics 			

Final Term Curriculum
Session – 2022-23
Subject- Mathematics
Class –VII

	JULY/AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
Concepts	Ch.9 Congruence of triangle Ch.10 Symmetry	Ch.11 3 D visualisation(Contd.) Ch.12 Construction	Ch.13 Perimeter and area Ch.14 Comparing Quantities.	Ch.15 Data handling and probability
Learning Outcomes	Students will be able <ul style="list-style-type: none"> To understand congruence of triangle under the criteria(SSS,SAS,ASA, RHS,AAS) To find the perimeter and area of congruent figures. To learn about line of symmetry in regular polygons To understand rotational symmetry. 	Students will be able <ul style="list-style-type: none"> To visualize 3 D objects. To construct Parallel lines. To construct angles under congruence criteria. 	Students will be able <ul style="list-style-type: none"> To find the perimeter and area of a square, rectangle, triangle and a parallelogram 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 <ul style="list-style-type: none"> To organize data To find range ,mean, mode and median To draw bar graphs and double bar graphs. To find probability
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
Activities	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> Paper folding (construction of triangles) Art integration project (School magazine) To observe rotational symmetry 	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> To identify Faces edges,vertices of Real life Examples Lab manual 	Competency-skills based activity/ Experiential learning Activity : <ul style="list-style-type: none"> Find out the approximate area of closed shapes by using a square grid/graph sheet. Role play and Analyzing bank statements. 	Competency-skills based activity/ Experiential learning Activity : Lab Manual
Assessments	<ul style="list-style-type: none"> Pen - paper Test Quiz/Questionnaire Notebook Maintenance CW/HW Assignment Main Book: 'I Did It' Mathematics 			