

BHARTIYA VIDYA MANDIR SENIOR SECONDARY SCHOOL
SECTOR-39, CHANDIGARH ROAD, LUDHIANA
SYLLABUS OF CLASS VII

BOOK: Text book For class VII NCERT		SUBJECT – MATHEMATICS		SESSION - 2024-2025		
Month	Unit/Chapter/Topic	Learning Objectives	Resources/Art-integrated pedagogy tools used/ E-Resources	Learning Outcomes/ Skills learnt by students		
APRIL	Chapter 1: Integers	Application of the concept of integers in solving daily life problems using four fundamental operations on integers.	Drill exercises, Explanatory method	http://epathshala.nic.in/OR/?id=756CH01	knowledge of properties of integers .knowledge of comparison, multiplication, division of integers. Also how to convert daily life problems into integers. .	Aesthetic skills, creative and thinking skills.
	Chapter 3: Data Handling	To develop skills of observing data and it's calculation and interpretation using graphs.	game based learning, visual learning.	http://epathshala.nic.in/OR/?id=756CH03	usage of data and it's organisation. Calculation of mean, median, mode, Range.Representation of data in bar graphs and double bar graphs.	critical thinking, analysis, interpretation.
MAY	Chapter 2: Fractions and Decimals	To improve calculation skills using four fundamental operations on fractions and decimals.	paper folding activities, use of concrete objects.	http://epathshala.nic.in/OR/?id=756CH02	Addition, subtraction, division and multiplication of fractions. learning of like, unlike, proper, improper, mixed fractions. conversion of decimals into fractions and fractions into decimals.	Reasoning, critical thinking, observation.
	Chapter 12:Symmetry	To develop aesthetic sense in students, to improve observation skill. Also knowledge of figures having symmetry both line and rotational.	Use of mathematical shapes and live class room examples to draw both line and rotational symmetry.	https://epathshala.nic.in/topic.php?id=0756CH12	Recognition of symmetrical figures in daily life.	Aesthetic Sense and observation skill.
JUNE	SUMMER VACATION					
JULY	Chapter 4: Simple Equations	Knowledge of concepts of simple equations in solving real life problems.	word problems from real life situations.	https://epathshala.nic.in/topic.php?id=0756CH04	knowledge of framing word problems from real life situations and how to frame equations and it's solution.	Reasoning skill
	Chapter 5:Lines and Angles	Identification of different types of angles with pair of parallel lines.	Different dance forms and yoga postures to identify different types of angles.	https://epathshala.nic.in/topic.php?id=0756CH05	knowledge of which types of angles are formed with two lines.	Experimental learning
AUGUST	Chapter 8: Rational Numbers	knowledge of concept of addition, subtraction, multiplication and division of Rational Numbers.	Activity how to find rational numbers between two given rational numbers.	https://epathshala.nic.in/topic.php?id=0756CH08	Knowledge of solution of real life problems related to rational numbers.	critical thinking, calculation skill.
SEPTEMBER	TERM I EXAMINATION					

OCTOBER	Chapter 6: Triangles and its properties	Knowledge of properties, elements, parts, types of a triangle.	Practical related to angle sum property of a triangle.	https://epathshala.nic.in/topic.php?id=0756CH06	Knowledge of facts about triangles that what are the possibilities to construct a triangle.	Critical thinking
	Chapter 11: Exponents and powers	Knowledge of laws of exponents in simplifying expressions.	Use of large and small numbers to express them in it's standard form.	https://epathshala.nic.in/topic.php?id=0756CH11	understanding of how to apply laws of exponents and how to express the numbers in standard form.	Observation skill, Calculation skill.
NOVEMBER	Chapter 7: Comparing Quantities	Knowledge of concept of ratio, percentage, profit /Loss, simple interest	Artificial market situation to clear the concept of profit and loss.	https://epathshala.nic.in/topic.php?id=0756CH07	Development of skill of making comparison of quantities in different ways.	Critical thinking and calculation skill.
	Chapter 9: Perimeter and Area	Knowledge of perimeter and Area of 2D shapes.	Experiential learning through different objects to each student to calculate perimeter and area of 2D objects.	https://epathshala.nic.in/topic.php?id=0756CH09	Knowledge of perimeter and Area of parallelogram, rhombus, triangle, circle etc.	critical thinking
DECEMBER	Chapter 10: Algebraic Expressions	Knowledge of how to form expressions from different number patterns.	Worksheet practice with different algebraic expressions.	https://epathshala.nic.in/topic.php?id=0756CH10	Knowledge of addition, subtraction of algebraic expressions.	Critical thinking, reasoning skill.
JANUARY	Chapter 13: Visualising solid shapes	To develop abstract thinking by using concept of 2D and 3D shapes.	Net of cube, cuboid, pyramid by paper cutting.	https://epathshala.nic.in/topic.php?id=0756CH13	Knowledge of nets of 3D shapes.	Observation skill
FEBRUARY	REVISION OF UNIT 2 SYLLABUS					
MARCH	TERM II EXAMINATION					