NISHAN-E-SIKHI INTERNATIONAL SCHOOL, KHADUR SAHIB

(PEDAGOGICAL PLAN)

CLASS- VII   **SUBJECT- MATHEMATICS**

MONTH	WEEK	TOPIC	LEARNING OBJECTIVES	ACTIVITIES	ASSESSMENT USED
APRIL	Week 1	Knowing our numbers	• To enable students to perform multiplication and division of integers.	Oral test	• Observation of level of understanding.
	Week 2	Knowing our numbers (cont.)	• To study and apply the properties of addition, subtraction and multiplication of integers. • To solve real life problems related to integers.	Worksheet	• Grades will be awarded for correct responses.
	Week 3	Fractions	• To solve multiplication and division of fractions.	Class worksheet	• Time involved in solving worksheet
	Week 4	Fractions(cont.)	• To study and apply the properties of multiplication and division of fractions. • To solve word problems related to fractions.	Revision test and Practical Geometry (a) To draw angle bisector and line bisector of given line or angle	• Observation of level of understanding • Checking geometrical skills
MAY	Week 1	Rational numbers	• To apply four basic operations on rational numbers. • To represent rational numbers on number line.	Practice sheet-MCQ	• One mark for each correct answer
	Week 2	Decimal representation of rational numbers	• To represent the rational numbers in the form of terminating or non-terminating repeating decimal using division and property.	Quiz –to find type of decimal expansion of sums using property	• Observation of level of understanding.
	Week 3	Revision of P.T.1	• Recall the concepts of topic-Fractions	Class test	• Marks will be awarded for correct responses. • Observation of performance in activity
	Week 4	Multiplication and	• To solve Multiplication	To represent the	

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			division of decimals	and division of decimal numbers. • To find multiplication and division of decimals with 10,100,1000 etc.	Product of decimals numbers such as (a) 0.7×0.3 (b) 0.5×0.5 using square sheet	• Neatness • accuracy
		Week 5	Multiplication and division of decimals(cont.)	• To simplify the numerical expressions involving decimals using rule BODMAS. • To find the solution of real life problems involving decimals.	Warm up	• Observation of level of understanding
	JUNE			SUMMER BREAK.		
	JULY	Week 1		SUMMER BREAK		
		Week 2		SUMMER BREAK		
		Week 3	Powers or exponents	• To solve exponents of rational numbers.	Practical Geometry (b) To construct an angle of $30^0,45^0,60^0,90^0$,$120^0,150^0,180^0$	• Accuracy • Checking right points. • Observation of performance in activity
		Week 4	Powers or exponents(cont.)	• To apply the laws of exponents		• Checking right points.
		Week 5	Data handling	• To represent the data with the help of frequency table. • To represent the data by bar graph	Revision test To compare the marks obtained in all subjects by a student in the first and second term examination, by drawing a bar graph using paper cutting and pasting.	• Observation of performance in activity • Checking right points while drawing bar graph .
	AUGUST	Week 1	Data handling(cont.)	• To find the measures of central tendency of given data. • To calculate the	Worksheet	• Marks will be awarded for correct responses

सप्ताह	उपाख		अध्ययन उद्देश्य	समझना	Observation of performance in activity
1.		Week 2	Understanding shapes	• To learn and apply the properties of pair of angles. • To apply the concept of angles formed by a transversal with parallel lines.	To represent angles formed by a transversal with parallel lines by using straws ,match sticks or by using model.	• Observation of performance in activity
		Week 3	Revision of P.T.2	• Recall the concepts	Class test	• Marks will be awarded for correct responses. • Observation of performance in activity
		Week 4	Triangles	• To prove and apply the angle sum and exterior angle property of triangle. • To apply the property of sides of triangle. • To find the solution of word problems using Pythagoras theorem.	To Verify using broom stick that a triangle can be drawn only if the sum of lengths of any two sides is greater than third side.	
SEPTEMBER		Week 1 Week 2	Revision of Mid-term exam	Recall of concepts	Class and Revision tests	• Marks will be awarded for correct responses
		Week 3 Week 4	----------------------	MID-TERM EXAM.	----------------------	----------------------------
OCTOBER		Week 1	Algebraic expressions	• To introduce the terms related to algebraic expression. • To enable the students to add and subtract like and unlike terms.	Class worksheets	• Time involved in solving the worksheet. • Accuracy • Correct responses
		Week 2	Simple linear equations in one variables	• To introduce the students with linear equations in one variable and enable them to find its solutions.	MCQs	• 1 mark for each correct answer
		Week 3	Simple linear equations in one variables (cont.)	• To solve word problems involving simple linear equation.	Peer study	• Students can be evaluated on their enthusiasm, interest in discussion and participation
		Week 4	Ratio and proportion	• To Clear the difference between ratio and proportion and enable them to solve its related	To find the ratio of circumference of a circle to its diameter.	• Concept clarity

probability.

	Week	Topic	Objectives	Activity	Evaluation
MBER	Week 1	Percentage and its application	• To introduce the concept of percentage and its related sums.	Oral test	• Concept clarity • Thinking skills
	Week 2	Percentage and its application(cont.)	• To enable the students to solve problems related to profit, loss and simple interest	Assignments work	• Accuracy • Neatness • Understanding
	Week 3	Symmetry	• To provide knowledge of various types of symmetry.	Blackboard activity	• Observation of level of understanding
	Week 4	Representation of 3D in 2D	• To provide knowledge of different kinds of 2D and 3D shapes and Euler formula	To verify Euler's formula using 3D shapes.	• Accuracy • Neatness • Understanding • Checking geometrical skills
	Week 1	Revision of P.1.3	Recalling all concepts and its practice problems	Written test	• Marks will be awarded for correct responses.
	Week 2	Congruence of figures	• To learn about congruence of squares, rectangles circles and triangles. • To learn about three rules of congruence.	To verify by paper cutting and superimposing that diagonal of parallelogram divides it into two congruent triangles.	• Accuracy in doing activity • Concept clarity
	Week 3	Circumference of circle	• To provide knowledge of circumference of different shapes and enable them to solve its problems.	To calculate area and perimeter of given object or space by measuring its length and breadth and prepare a record for the same.	• understanding level • Concept clarity
	Week 1	Revision of P.1.4	• Recalling all concepts and its practice problems	Written test	• Marks will be awarded for correct responses
	Week 2	Circumference of circle & Constructions.	• To memorize the formulas to calculate circumference of all figures.	To construct different types of triangles.	• Understanding level • Memorizing skills • Accuracy in construction

			• To provide knowledge of areas of different figures.	Using cubes make 7 different shapes and calculate their surface area and volume.	• Peer interaction • Checking geometrical skills
	Week 3	Areas of plane figures			
	Week 4	Areas of plane figures	• To solve problems related to area.	Written test	• Marks will be awarded for correct responses
FEBRUARY	Week 1 Week 2 Week3 Week 4	Revision of final term Final exams.	• Recalling all concepts and its practice problems ------------------	Written test & practice ------------------	• Marks will be awarded for correct responses. ------------------------