

Mathematics - (041)

Movers 2

Book Name – Learning Mathematics

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Unit Test I

Activity	Name	Teaching Strategy	Learning outcome	Weightage
Pen paper test	Ch-6 Linear equations	-Critical Thinking	-To develop the concept of direct and practical method of finding a solution of a linear equations in one variable.	10 Marks
	Ch-9 Lines and Angles	-Critical Thinking	-To cultivate the concepts of different types of angles intersecting and parallel lines	

Copy Assessment (5 Marks)

Practical lab work (5 Marks)

Half yearly

Chapters	Teaching Strategy	Learning outcome	Weightage
Ch-1 Integers Ch-2 Fractions and Decimals Ch-7 Ratio and Proportion Ch-14 Symmetry Ch-15 Visualizing Solid Shapes Ch-16 Data Handling	-Peer tutoring -Problem based Learning -Critical Thinking -Experimental Learning -Experimental Learning -Teaching with cases	- To cultivate the knowledge of integers and its properties -To apply the concepts of multiplication and division in decimal numbers -To review and strengthen the ideas on ratio and proportion -To develop concept of rotational symmetry -To implement the concept of 3-D shapes and their nets -To develop the concept of bar graphs, mean, median and mode also introduce the concept of probability	80 Marks

Half yearly will include Ch 1,2,6,7,9,14,15,16

Unit Test II

Activity	Name	Teaching Strategy	Learning outcome	Weightage
Pen paper test	Ch-10 Triangle and its properties	-Critical Thinking	- To develop the concept of exterior angle of a triangle and its properties	10 Marks
	Ch-11 Congruence of Triangles	-Critical Thinking	- To cultivate the concept of plane figures and congruence of triangle	

Copy Assessment (5 Marks)

Practical lab work (5 Marks)

Yearly

Chapters	Teaching Strategy	Learning outcome	Weightage
Ch-3 Rational Numbers	-Ability Based Learning	-To develop the concept of rational numbers and their simplifications	80 Marks
Ch-4 Exponents & Powers	-Critical Thinking	-To develop the concept of exponents and their laws	
Ch-5 Algebraic Expressions	-Critical Thinking	-To create the knowledge of algebraic expressions and how they are formed and developed by using one or more variables	
Ch-8 Percentage and its application	-Accelerated Learning	-To implement the knowledge of percent and percentage and use of it in solving real life problems	
Ch-12 Practical Geometry	-Interdisciplinary Teaching	-To develop the concept of construction of a line parallel to a given line and triangles	
Ch-13 Perimeter and Area	-Collaborative Learning	- To develop the concept of perimeter and area in close plane figures	

Yearly Exam will include Ch 1,3, 4, 5,6, 8, 10, 11, 12, 13

Activities to be conducted during the session

- To represent the following products of decimal numbers on a square by drawing horizontal ,vertical lines and shading.
- To compare the marks obtained in all the subjects by a student in the first and second term examination by drawing a bar graph using paper cutting and pasting.
- To verify by paper cutting and pasting that if two parallel lines are cut by transversal, then each pair of corresponding angles are equal.
- To verify by paper cutting and pasting that if two parallel lines are cut by transversal, then each pair of alternate interior angles are equal.
- To verify by paper cutting and pasting that if two parallel lines are cut by transversal, then each pair of interior angles on the same side of transversal are supplementary.

- To get a median of a triangle from any vertex, by paper folding.
- To verify that in a triangle, medians pass through the same point, by paper folding.
- To get an altitude of a triangle from any vertex, by paper folding.
- To verify that in a triangle, altitudes pass through the same point, by paper folding activity.
- To verify that the sum of all interior angles of a triangle is 180° by paper cutting and pasting.
- To verify that an exterior angle of a triangle is equal to the sum of two interior opposite angles by paper cutting and pasting.
- To verify that a triangle can be drawn if the sum of the length of any two sides is greater than the third side, using wooden sticks.
- To verify Pythagoras theorem using a squared paper by shading the squares.
- To verify by paper cutting and superimposing that diagonal of a parallelogram divides it into two congruent triangles.
- To find the ratio of circumference of a circle to its diameter.
- To draw a cube with given edge (say 6 cm long) on an isometric dot paper.
- To make oblique sketch of a cube on the squared paper.
- To draw a cuboid of given dimensions (say 7 units, 5 units and 3 units) on an isometric dot paper.
- To draw an oblique sketch of the cuboid of given dimensions (say 7 units, 5 units and 3 units) on a squared paper.
- To make the different shapes using unit cubes.