

Espalier Heritage School

Annual Planner 2022-23

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4	Basic Geometrical Ideas	1. Introduction	1. Set induction to check the basic knowledge about basic geometry.	1. Students will understand the meaning of geometry and application of geometry in our life	Inductive and deductive	The learner may be provided opportunities in pairs/groups/ individually and encouraged to	The learner describes geometrical ideas like line, line segment, open and closed figures, angle,	Geometrical shape-curved shape, quadrilateral, circle and angles	Classroom	Textbook	8	
		2. Points, A line segment, A line, Intersecting lines, Parallel lines and Ray	2. To explain the concept of point, lines, types of lines and plane.	2. Students will understand basic concept of geometry i.e. point, line and plane		explore various shapes through concrete models and pictures of different geometrical	triangle, quadrilateral, circle, etc., with the help of examples in surroundings					
		3. Curves and Polygons	3. To explain the concept of curves and polygon	3. Students will learn differences between curves and polygons		shapes like triangles and quadrilaterals, etc.						
		4. Angles	4. To explain the concept of angles and its types	4. Students will understand all basic concept about angles, quadrilateral and circles								
		5. Quadrilaterals	5. To explain the concept of quadrilateral and circles	5. Students will understand and able to explain about the difference between Sector and segment								
		6. Circles	6. Solving textbook exercises based on above concepts									
5	Understanding Elementary Shapes	1. Introduction		1. Students will learn how to use ruler and divider for constructing lines and to compare lengths of line	Inductive and deductive	The learner may be provided opportunities in pairs/groups/ individually and encouraged to	1. The learner demonstrates an understanding of angles by – identifying examples	Geometrical tools and different shapes	Classroom	Textbook	14	
		2. Measuring Line Segments		2. Students will understand when a hand of a clock moves from one position to another position we		• identify various geometrical figures and observe their characteristics in and outside the classroom	– classifying angles according to their measure – estimating the measure of angles					
		3. Angles - Right and Straight		3. Students will learn how to use a protractor to measure the size of an angles		• classify angles based on the amount of rotation	2. The learner classifies quadrilaterals into different groups/types on the basis of their					

		4. Angle- Acute, Obtuse and Reflex		4. Students will understand the concept of perpendicular line. The angle between Intersecting lines is 90°		• observe various models and nets of 3-Dimensional (3-D) shapes like cuboid, cylinder, etc. and discuss	3. The learner identifies various (3-D) objects like sphere, cube, cuboid, cylinder, cone from the surroundings					
		5. Measuring Angles		5. Students will learn about triangle and they will understand various types of triangle based on angle and side		about the elements of 3-D figures such as faces, edges and vertices						
		6. Perpendicular Lines		6. Students will understand concept of polygons able to identify different types of polygon based on the number of sides								
		7. Classification of Triangle		7. Students will understand various types of quadrilaterals								
		8. Quadrilaterals										
		9. Polygons										
		10. Three Dimensional Shapes										
6	Integers	1. Introduction	1. Set induction to check the previous knowledge of student about numbers	1. Students will understand concepts of number system.	Inductive and deductive	"The learner may be provided opportunities in pairs/groups/ individually and encouraged to"	The learner solves problem involving addition and subtraction of integers.	Integers- Number line	Classroom	Textbook	6	
		2. Representing integers on number line	2. To explain the concept of integers and how to represent integers on number line	2. Students will understand that all natural numbers and whole numbers are also integers		create and discuss daily life situations involving the use of negative numbers						

		3. Ordering of Integers	3. To explain the concept of comparing negative and positive integers	3. Students will learn that how more than given number gives a successor and one less than given number								
		4. Addition of Integers	4. To explain the concept of addition of integers by using number line	4. Students will learn how addition and subtraction of integers can also be shown on a number line								
		5. Subtraction of Integers	5. To explain the concept of subtraction of integers by using number line									
			6. Solving all exercises of textbook based on above concepts									
7	Fractions	1. Introduction	1. Set induction to know about basic concept of numerator and denominator	1. Students will understand that a fraction is a number representing a part of a whole.	Inductive and deductive	The learner may be provided opportunities in pairs/groups/ individually and encouraged to	1. The learner uses fractions in different situations which involve money, length,	Fraction kit	Classroom	Textbook	10	
		2. Fraction	2. To explain the concept of fraction and also how to represent fraction on number line.	2. Students will learn that fractions can be shown on number line. every fraction has a point associated with it		observe situations that require the representation by fractions	temperature etc. For example, $7\frac{1}{2}$ metres of cloth. distance between two places is 112.5					
		3. Fraction on the Number Line	3. To explain the concept of each type of fractions that is proper fraction, improper fraction and mixed fraction	3. Students will learn how to identify various types of fraction i.e. proper fraction, improper fraction and mixed fraction			2. The learner solves problems on daily life situations involving addition and subtraction of fractions					
		4. Types of Fractions	4. To explain the concept of finding the equivalent fractions	4. Students will understand that each proper or improper fraction has many equivalent fractions.								
		5. Equivalent Fractions	5. To explain the concept how to write any fraction into a simplest form.	5. Students will understand that fraction is said to be in the simplest form if its numerator and the denominator have no common factor other than 1								



		7. Subtraction of Numbers with Decimals	7. To explain the concept of subtraction of decimal numbers and how to solve application based questions.									
			8. Solving all exercise of text book based on above concept.									
9	Data Handling	1. Introduction	1. Set induction to check the previous knowledge about data handling	1. Students will understand that data is a collection of numbers gathered to give some information.	Presentation	The learner may be provided opportunities in pairs/groups/ individually and encouraged to	The learner arranges given/collected information such as expenditure on different items in a	Graph book	Classroom	Textbook	10	
		2. Interpretation of a Pictograph	2. To explain the concept how to interpret a pictograph and answer the following questions	2. Students will learn that to get a particular information from the given data quickly, the data can be arranged pictorially.		• collect information and display it in a pictorial form. For example, heights of students from their class and represent it pictorially.	family in the last six months, in the form of table, pictograph and bar graph and interprets it.					
		3. Drawing a Pictograph	3. To explain the concept how to represent data by using pictograph	3. Students will learn how a pictograph represents data in the form of pictures, objects or parts of objects.		• collect and discuss various diagrams/ bar charts from the newspapers/ magazines may be in the class.						
		4. Interpretation of a bar graph	4. To explain the concept how to interpret a bar graph and answer the following questions	4. Students will learn how to interpret a pictograph and answer the related question								
		5. Drawing a bar graph	5. To explain the concept how to represent data by using bar graph	5. Students will learn how to represent data by using pictograph and bar graph.								
10	Mensuration	1. Introduction	1. Set induction to check the previous knowledge about perimeter and area	1. Students will understand that perimeter is the distance covered along the boundary forming a closed figure.	Inductive and deductive	The learner may be provided opportunities in pairs/groups/ individually and encouraged to	The learner finds out the perimeter and area of rectangular objects in the surroundings like	Chart of Perimeter and Area	Classroom	Textbook	7	







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