

Espalier Heritage School	
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Annual Planner 2022-23

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		10. What is an Identity?												
10	Visualising Solid Shapes	1. Introduction	1. Set induction to check the previous knowledge about 3D shape.	1. Students will be able to recognise 2D and 3D object and also so different shapes in nested object.	Scientific attitude	"1. The learner may be provided opportunities in pairs/groups/ individually and encouraged to"	1. The learner represents 3D shapes on a plane surface such as sheet of paper, black board etc. • verifies Euler's relation through pattern	2D and 3D shapes	Math lab	No	Text book			6
		2. View of 3D-Shapes	2. To explain the concept of 3D shapes and how the shapes are connected to our day to day life.	2. Students will understand that 3D objects have different Views From different positions.		identify that surfaces of various 3-D objects like cubes, cuboids and cylinder								
		3. Mapping Space Around Us	3. To explain how to mapping space around us.	3. Students will understand that a map depicts the location of a particular object/ place in relation to other objects/ places		2. make nets of various shapes like cuboids, cubes, pyramids, prisms, etc. and from nets make the shapes and establish relationship among vertices, edges and surfaces								
		4. Faces, Edges and Vertices	4. To explain how to identify faces edges and vertices of 3D shapes.	4. Students will understand that maps involve a scale which is fixed for particular map and symbols are used to depict the different objects/ places										
			5. To explain how to solve exercise based on above concepts.											
11	Mensuration	1. Introduction	1. Set induction to check the previous knowledge of student about area.	1. Students will be able to find area of trapezium and general quadrilateral.	Scientific attitude	1. The learner may be provided opportunities in pairs/groups/ individually and encouraged to	1. The learner estimates the area of shapes like trapezium and other polygons by using square grid/ graph sheet and verifies using formulas.	Shapes of cube cuboid and cylinder	Classroom	no	Text book			15
		3. Area of Trapezium	2. To to explain exercise 11.1 based on Basic concept of Mensuration.	2. Students able to find surface area and volume of cube cuboid and cylinder		derive formulae for surface area of cubes and cuboids using the formulae for areas of rectangles, squares and circles	2. The learner finds the area of a polygon.							
		4. Area of General Quadrilateral	3. To to explain how trapezium formula derived and how to find the the area of trapezium			2. demonstrate to find volume of a given cube and cuboid using unit cubes	3. The learner finds surface area and volume of cuboidal and cylindrical object.							

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