

Purston Infant School – Progression in Mathematics

Geometry: Properties of Shapes

	Three and Four-Year Olds	Reception	ELG		Year 1	Year 2
RECOGNISE 2D AND 3D SHAPES AND THEIR PROPERTIES	Talk about and explore 2D and 3D shapes (for example, circles, rectangle, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.	Select, rotate and manipulate shapes in order to develop spatial reasoning skills.		IDENTIFYING SHAPES AND THEIR PROPERTIES	- Recognise and name common 2D and 3D shapes including: 2D shapes (e.g. rectangles (including squares), circles and triangles) 3D shapes (e.g. cuboids (including cubes), pyramids and spheres).	Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
						Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
	Select shapes appropriately: flat					Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid)

	surfaces for a building, a triangular pattern for a roof, etc					
	Combine shapes to make new ones – an arch, a bigger triangle etc.					
COMPARE AND CLASSIFY SHAPES		Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.		COMPARING AND CLASSIFYING		Compare and sort common 2D and 3D shapes and everyday objects