

Geometry: Properties of Shapes

Key of text colours

EYFS Development Matters (DM) Objectives & NC Objectives

Key concepts that create solid foundations in EYFS to build upon for the NC Objectives

NC Objective appears elsewhere within the same topic progression document

NC Objective also appears in another topic progression document

IDENTIFYING SHAPES AND THEIR PROPERTIES							
EYFS	ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>select, rotate and manipulate shapes in order to develop spatial reasoning skills</p> <p>compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can</p> <p>recognise and name common 2d and 3d shapes and talk about properties of sides, corners, edges, faces, curved and flat</p>	No ELG for SSM	<p>recognise and name common 2-D and 3-D shapes, including:</p> <ul style="list-style-type: none"> * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]. 	<p>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p>		<p>identify lines of symmetry in 2-D shapes presented in different orientations</p>	<p>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p>	<p>recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)</p>
			<p>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p>				<p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p>
			<p>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p>				

Geometry: Properties of Shapes

Key of text colours

EYFS Development Matters (DM) Objectives & NC Objectives

Key concepts that create solid foundations in EYFS to build upon for the NC Objectives

NC Objective appears elsewhere within the same topic progression document

NC Objective also appears in another topic progression document

DRAWING AND CONSTRUCTING							
compose and decompose shapes so that children recognise a shape can have others shapes within, just as numbers can using various construction sets in sustained construction projects eg The Shard, The 3 bears beds and chairs	No ELG for SSM			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (°)	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)
COMPARING AND CLASSIFYING							
select, rotate and manipulate shapes in order to develop spatial	No ELG for SSM		compare and sort common 2-D and 3-D shapes and everyday objects		compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	use the properties of rectangles to deduce related facts and find missing lengths and angles	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles,

Geometry: Properties of Shapes

Key of text colours
 EYFS Development Matters (DM) Objectives & NC Objectives
 Key concepts that create solid foundations in EYFS to build upon for the NC Objectives
 NC Objective appears elsewhere within the same topic progression document
 NC Objective also appears in another topic progression document

<p>reasoning skills</p> <p>compose and decompose shapes so that children</p> <p>recognise a shape can have other shapes within it, just as numbers can</p> <p>to sort shapes into categories according to their properties, eg all 3 sided shapes, shapes with curved edges</p>						<p>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p>	<p>quadrilaterals, and regular polygons</p>
ANGLES							
				<p>recognise angles as a property of shape or a description of a turn</p>		<p>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</p>	

Geometry: Properties of Shapes

Key of text colours
 EYFS Development Matters (DM) Objectives & NC Objectives
 Key concepts that create solid foundations in EYFS to build upon for the NC Objectives
 NC Objective appears elsewhere within the same topic progression document
 NC Objective also appears in another topic progression document

				identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	identify acute and obtuse angles and compare and order angles up to two right angles by size	identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) * other multiples of 90°	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
				identify horizontal and vertical lines and pairs of perpendicular and parallel lines			