

Curriculum progression



THURGOLAND

CHURCH OF ENGLAND PRIMARY SCHOOL



Shape

Identifying Shapes and their Properties

Identifying Shapes and their Properties						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) so I can use the correct language (sides, corners, straight, flat, round)</p>	<p>I know rectangle, circle and triangle are 2D shapes so I can recognise and name them.</p> <p>I know cuboids, pyramids and spheres are 3D shapes so I can recognise them.</p>	<p>I know the properties of 2D shapes are number of sides and lines of symmetry so I can identify and describe in 2D shapes.</p> <p>I know 3D shapes have faces which are 2D shapes.</p> <p>I know cuboids, pyramids and spheres are 3D shapes.</p>	<p>I know 3D shapes so I can recognise in different orientations and describe them.</p>	<p>I know a line of symmetry means each part is equal.</p> <p>I know how to represent lines of symmetry on 2D shapes in different orientations.</p>	<p>I know how to use the properties of rectangles so I can deduce related facts to find missing lengths/angles.</p> <p>I know how to identify 3D shapes (including cubes and cuboids) from 2D representations.</p>	<p>Recognise and describe simple 3D shapes</p> <p>I know the properties of 3D shapes so I can recognise and describe them.</p>

Comparing and Classifying

Comparing and Classifying						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know that a shape can have other shapes within it, just as numbers can.</p>		<p>I know how to sort and compare 2D shapes and everyday objects.</p> <p>I know how to sort and compare 3D shapes and everyday objects.</p>		<p>I know properties and sizes of geometric shapes (including quadrilaterals and triangles) so I can compare and classify them.</p>	<p>I know a regular polygon has equal sides and angles.</p> <p>I know irregular polygons have unequal sides and angles.</p>	<p>I know the properties and sizes of geometric shapes so I can compare and classify.</p>

**Drawing and constructing**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to combine shapes to make new ones – an arch, a bigger triangle, etc.</p> <p>I know how to select shapes appropriately: flat surfaces for building, a triangular prisms for a roof, etc.</p> <p>I know how to follow patterns so I can extend and create ABAB patterns – stick, leaf, stick, leaf.</p> <p>I know how to continue, copy and create repeating patterns.</p>			<p>Draw 2D shapes I know how to draw 2D shapes.</p> <p>I know how to make a 3D shape using modelling materials.</p>			<p>Draw 2D shapes given dimensions and angles</p> <p>I know how to draw 2D shapes with given dimensions and angles.</p> <p>I know the parts of a circle: radius, diameter and circumference.</p> <p>I know diameter is twice the size of the radius.</p> <p>I know how to build a 3D shape including making nets of shapes.</p>

Position and direction

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>I know how to describe position using my words so I can show my understanding (“The</p>	<p>I know the turns: whole, half, quarter and three-quarter so I can describe position and movement.</p>	<p>I know patterns and sequences have a rule so I can order and arrange to complete.</p>		<p>I know how to identify coordinates (x axis then y axis) to describe positions in the first quadrant.</p>	<p>I know how to identify the position of a shape following a reflection or translation.</p>	<p>I know how to identify coordinates (x axis then y axis) to describe positions on</p>



<p>bag is under the table,")– with no pointing.</p> <p>I know how to describe a familiar route.</p> <p>I know how to discuss routes and locations, using words like 'in front of' and 'behind'.</p> <p>I know how to select, rotate and manipulate shapes in order to develop spatial reasoning skills.</p>		<p>I know how to describe position, direction and movements.</p> <p>I know clockwise and anticlockwise describes rotation.</p> <p>I know quarter, half turn and three-quarter turns describes turns.</p>		<p>I know how to describe movement using left/right, up/down so I can describe movements in translation.</p> <p>I know how to plot and draw sides to complete a given polygon on a quadrant.</p>	<p>I know how to describe the position of a shape following a reflection or translation.</p> <p>I know how to represent the position of a shape following a reflection or translation.</p> <p>I know a shapes properties do not change for reflection and translation.</p>	<p>the full coordinate grid. (All 4 quadrants)</p> <p>I know how to use coordinates to draw and translate shapes on the coordinate place.</p> <p>I know how to reflect simple shapes on a full coordinate grid on the x and y axes.</p>
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Angles						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<p>I know a property of a shape is called an angle.</p> <p>I know a description of a turn is called an angle.</p> <p>I know right angles are 90 degrees.</p> <p>I know that 2 right angles is equal to 1 half turn.</p> <p>I know 3 right angles is equal to a three-quarter turn.</p> <p>I know 4 right angles is equal to 1 whole turn.</p> <p>I know angles larger than 90 degrees are greater than a right angle.</p> <p>I know angles smaller than 90 degrees are less than a right angle.</p>	<p>Identify acute and obtuse angles and compare and order angles up to two right angles by size</p> <p>I know an acute angle is less than 90 degrees.</p> <p>I know obtuse angles are more than 90 but less than 180 degrees.</p> <p>I know how to compare angles by size.</p> <p>I know how to represent lines of symmetry in 2D shapes presented in different orientations.</p> <p>I know how to use symmetry to complete a symmetrical shape.</p>	<p>Know angles are measured in degrees</p> <p>I know angles are measured in degrees.</p> <p>I know acute angles are less than 90 degrees.</p> <p>I know obtuse angles are between 90 and 180 degrees.</p> <p>I know reflex angles are greater than 180 degrees.</p> <p>I know to use a protractor to draw angles.</p> <p>I know a protractor is used to measure angles.</p> <p>I know how to identify: - Angles at a point and one whole turn (360)</p>	<p>Find unknown angles in any triangles, quadrilaterals and regular polygons</p> <p>I know how to find angles of triangles, quadrilaterals and regular polygons.</p> <p>I know the angles of a triangle equal 180 degrees.</p> <p>I know the angles of quadrilaterals equal 360 degrees.</p> <p>I know the angles of a regular polygon equal 360 degrees.</p> <p>I know how to find missing angles on a straight line or vertically opposite.</p>



I know perpendicular lines meet on a right angle.

I know parallel lines run adjacent to each other.

- Angles at a point on a straight line and $\frac{1}{2}$ turn (180)
- other multiples of 90