# Geometry: Properties of Shapes

<table>
<tr><th colspan="6">IDENTIFYING SHAPES AND THIER PROPERTIES</th></tr>
<tr><th>Year 1</th><th>Year 2</th><th>Year 3</th><th>Year 4</th><th>Year 5</th><th>Year 6</th></tr>
<tr><td rowspan="3">recognise and name common 2-D and 3-D shapes, including:<br>* 2-D shapes [e.g. rectangles (including squares), circles and triangles]<br>* 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].</td><td>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</td><td rowspan="3"></td><td rowspan="3">identify lines of symmetry in 2-D shapes presented in different orientations</td><td rowspan="3">identify 3-D shapes, including cubes and other cuboids, from 2-D representations</td><td>recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)</td></tr>
<tr><td>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</td><td>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</td></tr>
<tr><td>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</td></tr>
<tr><th colspan="6">DRAWING AND CONSTRUCTING</th></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2">draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</td><td rowspan="2">complete a simple symmetric figure with respect to a specific line of symmetry</td><td rowspan="2">draw given angles, and measure them in degrees (°)</td><td>draw 2-D shapes using given dimensions and angles</td></tr>
<tr><td>recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying</td></tr>
</table>

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| | | | | | Shapes and Their Properties) |
| **COMPARING AND CLASSIFYING** | | | | | |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | 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<br><br>distinguish between regular and irregular polygons based on reasoning about equal sides and angles | compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons |
| **ANGLES** | | | | | |
| | | recognise angles as a property of shape or a description of a turn | | know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles | |
| | | 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 | identify acute and obtuse angles and compare and order angles up to two right angles by size | identify:<br>* angles at a point and one whole turn (total 360°)<br>* angles at a point on a straight line and ½ a turn (total 180°) | recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |

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| | | than or less than a right angle | | * other multiples of 90º | |
| | | identify horizontal and vertical lines and pairs of perpendicular and parallel lines | | | |