## Geometry: Properties of Shapes

| IDENTIFYING SHAPES AND THIER PROPERTIES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| 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]. | identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line |  | identify lines of symmetry in 2-D shapes presented in different orientations | identify 3-D shapes, including cubes and other cuboids, from 2-D representations | recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) |
|  | identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces |  |  |  | illustrate and name parts of circles, including radius, diameter and circumference and know |
|  | identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] |  |  |  | the radius |
| DRAWING AND CONSTRUCTING |  |  |  |  |  |
|  |  | draw 2-D shapes and make 3-D shapes using modelling materials; | complete a simple symmetric figure with respect to a specific line of | draw given angles, and measure them in degrees ( ) | draw 2-D shapes using given dimensions and angles |
|  |  | different orientations and describe them |  |  | recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties) |

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| 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 | compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons |
|  |  |  |  | distinguish between regular and irregular polygons based on reasoning about equal sides and angles |  |
| 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 halfturn, 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: <br> * angles at a point and one whole turn (total $360^{\circ}$ ) <br> * angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ) <br> * other multiples of $90^{\circ}$ | 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 |  |  |  |

