## Geometry: Properties of Shapes

## National Centre <br> for Excellence in the

Teaching of Mathematics

| IDENTIFYING SHAPES AND THEIR PROPERTIES |  |  |  |  |  |  |  |  |
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| Pre FS | FS1 | FS2 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  |  |  |  | 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- <br> D shapes, including making nets (appears also in Drawing and Constructing) |
|  |  |  |  |  |  |  |  | illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
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|  |  | children recognise a shape can have other shapes within it, just as numbers can |  | on a cylinder and a triangle on a pyramid] |  |  |  |  |
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| DRAWING AND CONSTRUCTING |  |  |  |  |  |  |  |  |
|  |  | select, rotate and manipulate shapes in order to develop spatial reasoning skills |  |  | draw 2-D shapes and make 3-D <br> 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 ( ${ }^{\circ}$ ) | draw 2-D shapes using given dimensions and angles |
| build with a range of resources | select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc <br> combine shapes to make new ones - an arch, a bigger |  |  |  |  |  |  | recognise, describe and build simple 3D shapes, including making nets (appears also in Identifying Shapes and Their Properties) |

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|  |  |  |  | whether angles are <br> greater than or less <br> than a right angle |  | $*$ other multiples of $90^{\circ}$ |  |
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|  |  |  |  | identify horizontal and <br> vertical lines and pairs <br> of perpendicular and <br> parallel lines |  |  |  |

