## Geometry: Properties of Shapes

| IDENTIFYING SHAPES AND THEIR PROPERTIES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| notice simple shapes in pictures sort objects using properties such as shape describe everyday objects talk about shapes in the environments play with shapes |  |  | explore shapes with 4 sides recognise 3D shapes that roll and stack use names to describe 3D shapes investigate relationships between shapes |  |  |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| recognise and name common <br> 2-D and 3-D shapes, <br> including: <br> * 2-D shapes [e.g. <br> rectangles <br> (including | 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 3D shapes, including making nets (appears also in Drawing and Constructing) |

and triangles]

* 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].


|  | identify 2-D shapes <br> on the surface of <br> 3-D <br> shapes, [for <br> example, a circle on <br> a cylinder and a <br> triangle on a <br> pyramid] |
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## DRAWING AND CONSTRUCTING

| Use shapes to build models |  |  | Reception <br> recognise that shapes can be combined and separated to make new shapes investigate how many ways a shape can be built using smaller shapes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | 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 ( ${ }^{\circ}$ ) | draw 2-D shapes using given dimensions and angles |
|  |  |  |  |  | recognise, describe and build simple 3D shapes, including making nets (appears also in Identifying Shapes and Their Properties) |


|  |  |  | Receptioncompare 3D shapes identifying similarities and differences |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |


|  | compare <br> and sort <br> common 2- <br> D and 3-D <br> shapes and <br> everyday <br> objects |  | compare and <br> classify <br> geometric shapes, <br> including quadrilaterals <br> and triangles, based on <br> their properties and <br> sizes | use the <br> properties of <br> rectangles to <br> deduce <br> related facts <br> and find <br> missing lengths <br> and angles | compare and <br> classify <br> geometric shapes <br> based on their <br> properties and sizes <br> and find unknown <br> angles in any <br> triangles, <br> quadrilaterals, and <br> regular polygons |
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| distinguish |  |  |  |  |  |
| between |  |  |  |  |  |
| regular and |  |  |  |  |  |
| irregular |  |  |  |  |  |
| polygons based |  |  |  |  |  |
| on reasoning |  |  |  |  |  |
| about equal |  |  |  |  |  |
| sides and |  |  |  |  |  |
| angles |  |  |  |  |  |$\quad$|  |
| :--- |

ANGLES


