# Maths – Geometry Properties of Shape
## The Federation of Nettlestone & Newchurch

| Maths – Geometry Properties of Shape | | | | | |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| • I can recognise and name common 2-D shapes, including: rectangles (including squares), circles and triangles<br>• I can recognise and name common 3-D shapes, including: cuboids (including cubes), pyramids and spheres | • I can compare and sort common 2-D and 3-D shapes and everyday objects.<br>• I can identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line<br>• I can identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid<br>• I can identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces | • I can 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 than or less than a right angle<br>• I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines<br>• I can draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe them<br>• I can identify whether angles are > or < than a right angle | • I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes<br>• I can identify lines of symmetry in 2-D shapes presented in different orientations<br>• I can complete a simple symmetric figure with respect to a specific line of symmetry<br>• I can identify acute and obtuse angles and compare and order angles up to two-right angles by size | • I can draw given angles, and measure them in degrees (°)<br>• I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles<br>• I can identify 3-D shapes, including cubes and cuboids, from 2-D representations?<br>• I can identify angles at a point and one whole turn (total 360$^{\circ}$)<br>• I know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles.<br>• I can identify angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180$^{\circ}$)<br>• I can use the properties of rectangles to deduce related facts and find missing lengths and angles. | • I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.<br>• I can draw 2-D shapes using given dimensions and angles.<br>• I can illustrate and name parts of circles, including radius, diameter and circumference and know that diameter is twice the radius.<br>• I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.<br>• I can recognise, describe and build simple 3-D shapes, including making nets |