**Content domain – geometry: properties of shape**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Strand** | **National Curriculum reference Year 1** | **National Curriculum reference Year 2** | **National Curriculum reference Year 3** | **National Curriculum reference Year 4** | **National Curriculum reference Year 5** | **National Curriculum reference Year 6** |
| **G1**  Recognise and name common shapes | **1G1a**  Recognise and name common 2-D shapes [e.g.: rectangles (including squares), circles and triangles] | **2G1a**  Compare and sort common 2-D shapes and everyday objects |  |  |  |  |
| **1G1b**  Recognise and name common 3-D shapes [e.g.: cuboids (including cubes), pyramids and spheres] | **2G1b**  Compare and sort common 3-D shapes and everyday objects |  |  |  |  |
| **G2**  Describe properties and classify shapes |  | **2G2a**  Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line | **3G2**  Identify horizontal, vertical lines and pairs of perpendicular and parallel lines | **4G2a**  Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes | **5G2a**  Use the properties of rectangles to deduce related facts and find missing lengths and angles | **6G2a**  Compare and classify geometric shapes based on their properties and sizes |
|  | **2G2b**  Identify and describe the properties of 3-D shapes including the number of edges, vertices and faces |  | **4G2b**  Identify lines of symmetry in 2–D shapes presented in different orientations | **5G2b**  Distinguish between regular and irregular polygons based on reasoning about equal sides and angles | **6G2b**  Describe simple 3–D shapes |
|  |  |  | **4G2c**  Complete a simple symmetric figure with respect to a specific line of symmetry |  |  |
| **G3**  Draw and make shapes and relate 2-D to 3-D shapes (including nets) |  | **2G3**  Identify 2-D shapes on the surface of 3-D shapes, [e.g.: a circle on a cylinder and a triangle on a pyramid] | **3G3a**  Draw 2–D shapes |  |  | **6G3a**  Draw 2–D shapes using given dimensions and angles |
|  |  | **3G3b**  Make 3–D shapes using modelling materials; recognise 3–D shapes in different orientations and describe them |  | **5G3b**  Identify 3–D shapes including cubes and other cuboids, from 2–D representations | **6G3b**  Recognise and build simple 3D shapes, including making nets |
| **G4**  Angles – measuring and properties [KS2] |  |  | 3G4a  Recognise that angles are a property of shape or a description of a turn | **4G4**  Identify acute and obtuse angles and compare and order angles up to two right angles by size | **5G4a**  Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles | **6G4a**  Find unknown angles in any triangles, quadrilaterals and regular polygons |
|  |  | **3G4b**  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 |  | **5G4b**  Identify:   * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and ½ a turn (total 180°) * other multiples of 90° | **6G4b**  Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |
|  |  |  |  | **5G4c**  Draw given angles and measure them in degrees (°) |  |
| **G5**  Circles [KS2] |  |  |  |  |  | **6G5**  Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |