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| **Learners are able to:** | **Nursery**   * **Recognise and use the names for 2D shapes (*circle, square, triangle*) within play activities and the environment** * **Use and build with 2D and 3D shapes within play-based activities** * **Use a variety of media to develop concept of symmetry** | **Reception**   * **Recognise and name common 2D shapes (*circle, square, triangle and rectangle*) and some 3D shapes (*cube, cuboid and sphere*) within play activities and the environment** * **Use 2D and 3D shapes to make models and pictures** * **Complete a simple symmetrical picture through a variety of media** | **Year 1**   * **Recognise and name common 2D shapes (*square, triangle, rectangle, circle and semi-circle*) and 3D shapes (*cube, cuboid, cone and sphere*) in order to begin to compare and sort** * **Use 2D and 3D shapes and describe how they fit together** * **Recognise and complete a symmetrical picture or simple shape** | **Year 2**   * **Recognise and name regular and irregular 2D and 3D shapes, understand and use the properties of shape** * **Make increasingly more complex or accurate models with 3D shapes and tessellate 2D shapes** * **Identify a line of symmetry for 2D shapes and complete symmetrical pictures** |
| **Use geometry skills**  **Shape**  **Structure**  **Movement** | **2D and 3D shapes**   * Free play and building activities using various shapes * Direct matching * Match the same shape but of a different size * Classify shapes – one criterion * Identify 2D and 3D shapes in the environment/around the school * Feel shapes and guess which shape is similar * See part of a shape and guess which shape is similar * Which shapes are 2D and which shapes are 3D? * Are they hollow or solid? Do they roll? * Straight and curved sides * Name 2D shapes *e.g. square, circle, rectangle, triangle* * Where is the \_\_\_? * What is this shape? * Colour the triangle yellow * Name 3D shapes *e.g. cube, cuboid, cylinder, sphere, cone* * Where is the \_\_\_? * What is this shape? * Which has a square face? * Colour the cube yellow * Sort shapes – criteria * Match a picture to a 3D shape * Sequence of 2D and 3D shapes * Tile patterns – rotate to make a pattern   **Symmetry**   * Use computer software / paper folding and painting to make symmetrical pictures * Complete a simple shape around a vertical line * Cut folded paper and open out to make symmetrical patterns | | **2D and 3D shapes**   * Make pictures using 2D shapes * Look at the characteristics of 2D shapes * Sort 2D and 3D shapes * Follow the pattern of shapes * Use stencils to make shape pictures * Sketch and draw 2D shapes on various types of paper * Use geostrips to make shapes with particular characteristics * Link dots to make shapes and use pinboards and elastic bands * Sort 2D shapes according to characteristics – more than one criterion. Venn and Carroll diagram * Match objects to a picture of a 3D shape * Look at and describe the characteristics of 3D shapes. How many vertices, edges, faces? * Make models with various 3D shapes/blocks * Sort 3D shapes according to characteristics – more than one criterion. Venn and Carroll diagram * Use straw, pipe cleaners, multilinks to make skeleton 3D shapes * Introduce pentagon, hexagon, octagon, triangles and various quadrilaterals * How many sides, length of sides, curved/straight lines, corners/angles * Yes/No questions to guess shapes * Shape patterns by rotating ½ turn * Match regular and irregular shapes (how many sides) * Visualize 2D and 3D shapes * Classify shapes – clues. I’m thinking of a shape… * Arrange matches to make shapes * Find a solid shape with at least one face that corresponds to a picture/outline of a 2D shape * Nets of 3D shapes – Clixi, Polydron, cardboard. Open out boxes to see the net * Use cubes to make one/two layer solids from pictures * Combine or fold 2D shapes to make new shapes * Tessellation – which shapes tessellate?   **Symmetry**  Symmetry of 2D shapes and others   * Experiment with mirrors, mosaics, geoboards, dotted/squared paper * Identify and draw a line of symmetry * Symmetrical patterns – peg boards * Big letters – symmetry * Folding paper to make symmetrical patterns * Complete a shape around a line to make it symmetrical * Complete/reflect symmetrical patterns on dotted/squared paper | |