Progression Document: Geometry

| Year 1 | [KEY] I can name common 2-D shapes such as rectangles, squares, circles and triangles. | | | | | | | [KEY] I can name some 3-D shapes such as cuboids and cubes, pyramids and spheres. | | | | | | I can describe my position, direction and movement, including whole turns, half turns, quarter turns and three- quarter turns. | | | | |
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| Year 2 | I can tell you which 2-D shapes appear as the fac on 3-D shapes, such as triangles on a pyramid. | | | l ca prope shap numbe and ve | the e 3-D g the faces have. | P[KEY] I can con3-Dand 3-D shapheeveryday objecave.me. | | npare 2-D bes with ts around | | sort es ar bjec y an ory h | objects into nd tell you how ts are in each d show which as the most. | I can describe the properties of some 2 shapes, including th number of sides they h and facts about the symmetry. | | the e 2-D I g the ey have their | can oro mathe pattern | der combinations of matical objects in is and sequences. | | |
| Year 3 | I recognise and can describe 3-D shapes even when they have been turned about in different ways. | |) 2 3 | [KEY] I can tell whether an angle is greater than or less than a right angle | | I know a to meas someth angle is in a 2-D | I know an angle is used to measure how far something turns. An angle is also the point in a 2-D shape. | | I can measure the perimeter of a 2-D shape such as a square or triangle. | | , | I know when a li horizontal or ver when two lines a perpendicular or parallel | now when a line is prizontal or vertical or nen two lines are prpendicular or arallel | | I draw 2-D shapes and make 3-D shapes using modelling materials. | | [KEY] I know what a right angle is and I know that two right angles make a half- turn, three make three quarters of a turn and four right angles make a complete turn. | |
| Year 4 | If I have been given one half of a symmetrical shape, I can complete the other half based on the position of the line of symmetry. | | l can fi of a re shape the r squ shape | n find the area a rectangular and pe by counting pe of squares the ape takes up. | | easure late the er of a ngle ing a re). | [KEY] I can find all the lines of symmetry in 2-D shapes. | | [KEY] I can group 2-D shapes based on their properties (such as the number of sides) and sizes. | | I can move (translate) a point on a grid by a given set of jumps either up/down or left/right. | | [KEY] poin coordin join up to c sh | [KEY] I can plot points using coordinates and join up the points to create a shape. | | the of a grid. | I can find acute and obtuse angles and order a set of given angles by size. | |
| Year 5 | I can Identify 3- D shapes, including cubes and other cuboids, from 2-D drawings. | | [KEY] I calculate area c rectangle square (centimet (cm2) a quare ma (m2) a estimate rea of irre shape | I can ate the a of gles in are netres) and metres o and ate the irregular pes. | | [KE) draw angle 47°), a measu in deg | [KEY] I can I kn draw a given angle (such as 47°), and then measure them in degrees (°). | | Dw one turn - or of angles round a measure of 360°. I know ti angles degrees a can estin and comp acute, ob angles | | nat d in nd l nate bare cuse ex | I can find th missing leng and angles c rectangle. | e I ths mu fa (ri | I can identify multiples of 90° (right angles). | | at a ine - that o a ine - 180°. | [KEY] I know regular shapes have equal sides and angles and irregular shapes do not have equal sides and angles. | |
| Year 6 | I can I can solve calculate similar the area of shape parallelogr problems. ams and triangles. | | l k e tho a of ha ogr tho d dif s. wi pe dif | I know that even though shapes may have the same area, the perimeter may be different - or a shape with the same perimeter may have a different areas. qu | | EY] I can classify ometric shapes sed on their operties and sizes id find unknown igles in any angles, iadrilaterals, and gular polygons. | | I can work with angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. | | I accurately draw 2-D shapes using given dimensions and angles. | | [KEY] I can draw and translate shapes using coordinates of reflect a shap on the grid. | I ca rec des bui bui pr sha be inc ma | I can recognise, describe and build 3-D shapes, including making nets. | | the rants inate | I know the parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. | |