Age-related expectations: **Year Six**

MATHS continued

Measurement
38. solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
39. use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
40. convert between miles and kilometres
41. recognise that shapes with the same areas can have different perimeters and vice versa
42. recognise when it is possible to use formulae for area and volume of shapes
43. calculate the area of parallelograms and triangles
44. calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [eg mm^3 and km^3]
↑Use four operations, including with decimal quantities
↑Crease a scaled model of a historical or geographical structure showing an acceptable degree of accuracy using known measurements
↑Calculate costs and time involved to visit a destination in another part of the world relating to on-going learning in history or geography
Geometry: properties of shapes
45. draw 2-D shapes using given dimensions and angles
46. recognise, describe and build simple 3-D shapes, including making nets
47. compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
48. illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
49. recognise angles where they meet at a point, are on a straight line, or vertically opposite; find missing angles
Geometry: position and direction
50. describe positions on full coordinate grid (4 quadrants)
51. draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Statistics
52. interpret pie charts and line graphs and use these to solve problems
53. construct pie charts and line graphs and use these to solve problems
54. calculate and interpret the mean as an average
↑Collect own data on personal project and present information in formats of their choosing, charts, graphs and tables and answer specific questions related to their research