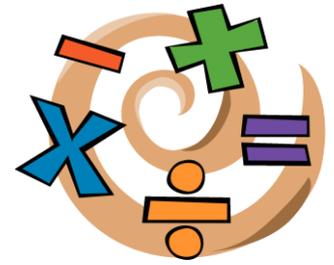




Mathematics

Shape, Space & Measures



Name: _____

By the end of Year 6...

To understand the properties of shapes		I can recognise angles where they meet at a point, are on a straight line or are vertically opposite, and find missing angles.
		I can draw 2-D shapes using given dimensions and angles.
		I can recognise, describe and build simple 3- D shapes , including making nets.
		I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.
		I can classify different types of triangles (isosceles, right-angled, scalene and equilateral) using their properties.
To describe position, direction and movement		I can draw reflections of shapes where the mirror line is at 45° and whether the shape is touching the line or not.
		I can rotate a shape around its centre or vertex .
		I can describe positions on the full coordinate grid (all four quadrants).
		I can predict missing coordinates , using my knowledge of properties of shapes.
		I can draw and translate simple shapes on the coordinate plane , and reflect them in the axes.
To use measures		I can convert between standard units of length, mass and volume using decimals up to 3dp.
		I can convert between standard units of time .
		I can convert between miles and kilometres .
		I can calculate intervals on a scale , including measurements and across zero.
		I can calculate, estimate and compare the volume of cubes and cuboids using standard units , including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units.
		I can calculate the perimeters of composite rectilinear shapes .
		I can recognise that shapes with the same area can have different perimeters and vice versa .
		I recognise when it is possible to use formulae for area and volume of shapes .
		I can calculate the area of parallelograms and triangles .
		I can solve problems involving the calculation and conversion of units of measure , using decimal notation up to 3dp.
To use statistics		I can interpret and construct pie charts and line graphs and use these to solve problems.
		I can use frequency tables to record discrete data .
		I can calculate and interpret the mean as an average .
		I understand the mode and range and use them to describe a set of data.
		I can describe and predict the outcomes from data , using the language of chance and likelihood.
To use algebra		I can generate and describe linear number sequences , including those involving fractions and decimals.
		I can find the term to term rule in a number sequence.
		I understand how to solve balancing equations , such as: $20 + ? = 40 - 10$.
		I am beginning to express simple formulae E.g. missing measures in perimeters: $4 + 2b = 20$, where one side of the rectangle is 2cm and the perimeter 20cm).

