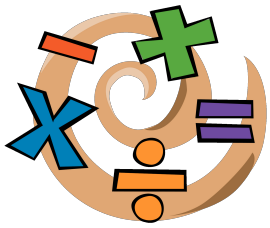
Mathematics

Shape, Space & Measures



Name: _____

By the end of Year 4...

To understand the properties of shapes				*I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. *I am beginning to classify different types of triangles, such as equilateral, scalene, isosceles and right-angled.
				*I can identify acute and obtuse angles and compare and order angles up to two right angles by size.
				*I can recognise the line of symmetry in a variety of diagrams, including where the line of symmetry does not dissect the original shape. *I can complete simple symmetric figures when using a vertical or horizontal line of symmetry.
To describe position, direction and movement				*I can describe movements between positions as translations of a given unit to the left/right and up/down. *I can use the directional terminology: clockwise/ anticlockwise, 90° to describe position, direction and movement.
				*I can describe positions on a 2-D grid as coordinates in the first quadrant. *I can plot specified points and draw sides to complete a given polygon.
To use measures				*I can convert between different units of measure. (E.g. kilometre to metre, hour to minute) using multiplication and division.
				*I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. *[expressing perimeter algebraically: 2(a+b)]* *I can find the area of rectilinear shapes by counting squares.
				*I can read, write and convert time between analogue and digital 12- and 24-hour clocks. *I can solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.
				*I can estimate, compare and calculate different measures, including money in pounds and pence.
To use statistics				*I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
				*I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables (i.e. Venn diagrams and Carroll diagrams) and other graphs.
To use algebra				*I can solve addition and subtraction, multiplication and division problems that involve missing numbers. E.g. Perimeter = 2(a+b); P= 36cm; a= 6cm. *I can use my knowledge to solve routine and non-routine problems. E.g. possibility of set menu combinations.