



	CALCULATION	FRACTIONS, DECIMALS & PERCENTAGES	ALGEBRA	GRAPHS	RATIO & PROPORTION	SHAPE	MEASUREMENT	PROBABILITY & STATISTICS
9	I can multiply and divide numbers in standard form without a calculator	I can calculate repeated fractional change	I can find the nth term of a quadratic sequence	I can construct a table of values and plot a reciprocal graph ($y = 2/x$, $y = -3/x$)		I can describe combined transformations as a single transformation	I can convert between metric area (mm^2 , cm^2 , m^2) and metric volume (mm^3 , cm^3 , m^3)	I can interpret and construct box plots
8	I can interpret and compare numbers in standard form with positive & negative indices	I can find the original amount using multipliers	I can multiply out double brackets e.g. $(3x+2)(4x-3)$	I can discuss and interpret linear and non-linear real life graphs	I can convert between currencies	I understand and use similarity to find missing angles and sides	I can calculate the surface area of prisms, including cylinders	I can estimate the median and IQR from cumulative frequency graphs
7	I can estimate an answer by rounding to any number of significant figures	I know fractional equivalents to key recurring decimals e.g. 0.333..., 0.666..., 0.111.....	I can factorise into a single bracket with a positive number outside	I can use linear graphs to find approximate solutions of simultaneous linear equations	I can calculate average speed, distance and time in mph and metric	I can describe a positive fractional scale factor enlargement using a centre	I can calculate the volume of prisms (cross-section x length)	I can compare distributions of grouped discrete or continuous data using mean, mode and range
6	I can add, subtract, multiply and divide negative numbers	I can multiply & divide fractions (by another fraction or an integer)	I can multiply out a single bracket with a positive and negative number outside	I can plot and read values from a distance-time graph	I can simplify a ratio using different units e.g. 35cm:2m	I can rotate a shape from a given centre	I can find a bearing and a return bearing	I can find averages from back to back stem and leaf diagrams
5	I can use the order of operations including brackets	I can simplify fractions	I can write a two stage formula	I can draw $y = x + c$ and $y = mx$	I can simplify a ratio	I can recognise parts of a circle (semicircle, circumference, diameter, radius)	I can convert one metric unit to another	I can use Venn diagrams to calculate probability
4	I can use formal methods to multiply 3-digit by 2-digit whole numbers	I can convert between mixed numbers and improper fractions	I can identify and use an inverse function machine	I can draw and label horizontal and vertical lines	I can use simple ratio notation	I can name types of triangles (isosceles, equilateral, scalene and right angled)	I can estimate the size of an angle	I can find the mode and range for small sets of discrete data
3	I know all my times tables (1 - 12) and can use them for division too and can order decimals	I can use decimal notation in contexts such as money	I can use a function machine to calculate outputs	I can draw, label and scale axes		I can recognise and identify all the lines of symmetry of 2D shapes	I can distinguish between perimeter and area	I can complete, read and interpret discrete information in a tally chart
2	I can multiply and divide multiples of ten by 10, 100 and 1000	I understand what a half and a quarter are	I can recognise and describe number patterns for adding and subtracting sequences			I can recognise a triangle, square, pentagon, hexagon, octagon and decagon	I can estimate an area by counting whole squares and more than half squares	
1	I can use a range of mental methods for addition and subtraction	I can recognise a fraction shaded on a grid	I can draw the next pattern in the sequence				I can use a ruler to measure a line	