

7	8	9	Number	Algebra	Ratio and Proportion	Geometry	Probability and Statistics
		M+	<p>I can evaluate any numbers using negative and fractional powers.</p> <p>I can express a recurring decimal as a fraction.</p>	<p>I can solve a pair of simultaneous equations with different coefficients.</p> <p>I can use the formula to solve a quadratic equation.</p> <p>I can solve a series of linear inequalities on a graph.</p>	<p>I can find the missing lengths in similar shapes.</p> <p>I can perform calculations involving growth and decay such as calculating compound interest.</p>	<p>I can use trigonometry to find missing angles and lengths in right angled triangles.</p> <p>I can apply Pythagoras' Theorem in a 3D scenario.</p> <p>I can confidently describe any transformation including with negative and fractional values.</p>	<p>I can correctly draw a histogram with unequal groups.</p> <p>I can construct a box plot from a list of data and consider outliers.</p>
		M	<p>I can calculate the upper and lower bounds of a rounded answer.</p> <p>I can evaluate numbers or expressions using fractional powers</p> <p>I can add and subtract with surds.</p> <p>I can simplify surds.</p>	<p>I can solve a pair of simultaneous equations with different Coefficients.</p> <p>I can use the formula to solve a quadratic equation.</p> <p>I can solve a series of linear inequalities on a graph.</p>	<p>I can find reverse percentages.</p> <p>I can calculate the pressure of a force on an area.</p>	<p>I can use Pythagoras' Theorem to find the missing side of a triangle.</p> <p>I can find the area and volume of a prism.</p> <p>I can enlarge a shape using a fractional scale factor.</p>	<p>I can find the quartiles from a list of data.</p> <p>I can draw a tree diagram without replacement and calculate probabilities from it.</p>

	M	S	<p>I can apply the laws of indices to simplify expressions with Negative powers.</p> <p>I can estimate powers and roots of any positive integer.</p> <p>I can perform arithmetic with mixed numbers and improper fractions.</p> <p>I can apply the laws of indices to simplify expressions for multiplied and divided terms, including the zero power</p> <p>I can write large and small numbers in standard form I can find the reciprocal of a number</p> <p>I can perform arithmetic with proper fractions</p>	<p>I can plot a quadratic graphs.</p> <p>I can state the equation of a line given two points</p> <p>I can recognize cubic and reciprocal graphs and use these to approximate solutions graphically.</p> <p>I can find the nth term of a quadratic sequence.</p> <p>I can solve a linear inequality</p> <p>I can state difference between an expression, equation, identity.</p> <p>I can solve a linear equation with one or two negative unknowns.</p> <p>I can change the subject of a formula where the unknown appears on one side.</p> <p>I can solve a linear equation with positive unknowns on both sides.</p> <p>I can expand a combination of linear brackets.</p> <p>I can state the equation of a parallel line Algebra.</p>	<p>I can find reverse percentages.</p> <p>I can calculate the pressure of a force on an area.</p>	<p>I can use Pythagoras' Theorem to find the missing side of a Triangle.</p> <p>I can find the area and volume of a prism.</p> <p>I can find the interior and exterior angles of a polygon.</p> <p>I can find the area and perimeter of any compound shape</p> <p>I can calculate with column vectors.</p> <p>I can produce a construction using a pair of compasses.</p>	<p>I can interpolate and extrapolate using a line of best fit.</p> <p>I can draw a scatter diagram and interpret the correlation.</p> <p>I can calculate the mean from a frequency table.</p> <p>I can draw a time series graph.</p> <p>I can display and interpret probability outcomes in a Venn diagram</p> <p>I can draw and interpret back-to-back stem and leaf diagrams.</p> <p>I can draw a tree diagram with replacement and calculate probabilities from it.</p>
M	S	D	<p>I can estimate powers and roots of any positive integer.</p> <p>I can perform arithmetic with mixed numbers and improper fractions.</p> <p>I can apply the laws of indices to simplify expressions with Negative powers.</p>	<p>I can solve a linear inequality state difference between an expression, equation, identity.</p> <p>I can solve a linear equation with one or two negative unknowns. I can change the subject of a formula where the unknown appears on one</p>	<p>I can work confidently with percentage greater than 100% .</p> <p>I can solve indirect proportion problems using the unitary method</p> <p>I can share into a given ratio</p> <p>I can calculate the simple interest of money</p> <p>I can draw and interpret</p>	<p>I can find the area and Circumference of a circle.</p> <p>I can enlarge a shape given a positive scale factor</p> <p>I can find missing angles in parallel lines.</p> <p>I can find the area and Circumference of a circle.</p> <p>I can enlarge a shape given a positive scale factor.</p>	<p>I can find the mode from a list of data.</p> <p>I can draw and interpret a bar chart.</p> <p>I can calculate the range from a list of data.</p> <p>I can draw and interpret a pictogram.</p> <p>I can use the language of probability.</p>

				<p>side.</p> <p>I can solve a linear equation with positive unknowns on both sides.</p> <p>I can expand a combination of linear brackets.</p> <p>I can state the equation of a parallel line.</p>	<p>a time distance graph.</p> <p>I can use a multiplier on a calculator to calculate percentage change.</p>	<p>I can find missing angles in parallel lines.</p>	<p>I can find the median from a list of data.</p> <p>I can place events on a probability scale.</p> <p>I can calculate the probability of an equally likely event, knowing that probability outcomes sum to 1.</p> <p>I can construct and complete a two way table.</p> <p>I can draw a pie chart from a set of data.</p> <p>I can find the mean from a list of data.</p> <p>I can create a sample space diagram based on two events.</p> <p>I can use a stem and leaf diagram to order numbers and find averages using it</p> <p>I can use two-way tables.</p> <p>I can use tables for grouped data.</p>
S	D	<p>I can use estimation within Calculations.</p> <p>I can write a number as a product of its prime factors and use this to find HCF and LCM.</p> <p>I can round to any number of significant figures.</p>	<p>I can solve an equation including single brackets, negatives and fractions.</p> <p>I can plot a straight line graph of the form $ax + by = c$.</p> <p>I can state the gradient and y intercept of any straight line graph.</p> <p>I can factorize a linear expression.</p>	<p>I can calculate speed, distance or time of an object.</p> <p>I can order fractions, decimal and percentages by converting.</p>	<p>I can find the area and Circumference of a circle.</p> <p>I can enlarge a shape given a positive scale factor.</p> <p>I can find missing angles in parallel lines.</p>	<p>I can draw simple conclusions and explain reasoning.</p> <p>I can check results and consider whether they are sensible.</p> <p>I can present and interpret solutions in the context of the problem.</p> <p>I can develop correct use of Notation, symbols and diagrams.</p>	

D			<p>I can calculate with negative Numbers. I can apply the order of operations correctly. I can round to any number of Decimal places.</p>	<p>I can draw and interpret a Conversion graph. I can plot a straight line graph of the form $y = ax + b$. I can find the nth term of a linear sequence. I can substitute a negative number into an expression or formula. I can simplify multiplied expressions. I can expand a single bracket. I can create and use a formula. I can continue a Fibonacci or Geometric sequence. I can substitute a positive number into an expression or formula. I can draw a straight line graph of the form $y=k$ and $x=k$. I can form and solve a linear two step equation.</p>	<p>I can convert between fractions, decimals, and percentages. I can write one number as a Percentage of the other.</p>	<p>I can draw the net, plan and side elevation of a 3D shape. I can find the area of triangles, parallelograms and trapeziums. I can use bearings to describe the direction.</p>	<p>I can make a general statements based on evidence produced. I can present information and results in a clear and organized way. I can draw a scatter diagram and interpret the correlation. I can draw a tree diagram with replacement and calculate probabilities from it. I can create a sample space diagram based on two events. I can use a stem and leaf diagram to order numbers and find averages using it I can draw a pie chart from a set of data. I can find the mean from a list of data. I can calculate the probability of an equally likely event, knowing that probability outcomes sum to 1. I can construct and complete a two way table. I can find the median from a list of data. I can place events on a probability scale.</p>
D			<p>I can perform arithmetic with decimals. I can identify square and cube numbers. I can calculate square roots.</p>	<p>I can collect like terms. I can generate a sequence given the rule. I can solve a linear one-step equation.</p>	<p>I can calculate percentage increase and decrease. I can create a scale drawing. I can find a percentage of an</p>	<p>I can convert between different measures such as cm and m. I can translate any shape. I can find the missing</p>	<p>I can find a pattern or solution. I can use a range of strategies when solving problems. I can organize my work</p>

			<p>I can list multiples, factors and primes.</p> <p>I can add and subtract integers.</p> <p>I can read values off a scale.</p> <p>I can state the place value of a number.</p> <p>I can round to 10, 100, 1000.</p> <p>I can add and subtract decimals.</p> <p>I can identify equivalent fractions.</p> <p>I can fractions of amounts.</p>	<p>I can plot and read co-ordinates in all four quadrants.</p> <p>I can recognize the rule of a sequence.</p> <p>I can plot co-ordinates in the first quadrant</p>	<p>amount.</p> <p>I can use a scale on a map.</p> <p>I can find equivalent ratios.</p> <p>I can simplify a ratio.</p> <p>I can write a ratio from words or pictures.</p>	<p>angle in any triangle.</p> <p>I can reflect a shape in a line and rotate a shape around a point.</p>	<p>and check results.</p> <p>I can try different approaches and find ways of overcoming difficulties that arise.</p> <p>I can explain why an answer is correct.</p> <p>I can predict what comes next in a simple number, shape or Spatial pattern or sequence.</p> <p>I can calculate the range from a list of data.</p> <p>I can draw and interpret a pictogram.</p> <p>I can use the language of probability.</p>
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