

		Greater than expected progress.		Expected progress		Less than expected progress	
		Students will be able to know / understand / do:		Students will be able to know / understand / do:		Students will be able to know / understand / do:	
		Mid-year	End of year	Mid-year	End of year	Mid-year	End of Year
<b>Extended learner</b>	Calculate HCF and LCM using product of prime factors. Show that an expression is a multiple of a number or has a certain factor. Recognise and use function notation. Create inverse functions to return an input given any output. Solve more complex problems involving finding missing angles using a combination of rules and shape properties.	Add/subtract any rational numbers. Solve problems involving equivalent areas including the use of properties of shapes. Solve area of triangle/trapezia problems involving algebra. Solve complex problems involving different types of sequences. Find the nth term of a geometric sequence. Solve linear simultaneous equations graphically	Order multiplication and division by powers of 10 calculations. Use inverse operations to find missing parts of calculations. Recognise common factors and multiples and when to use them in context. Find lower and upper bounds given a number that has been rounded. Use BIDMAS including decimals and negative numbers. Find the highest common factor/lowest common multiple of two or more numbers. Find missing angles using a combination of rules and shape properties. Order mixed numbers and fractions Order a combination of integers, decimals and fractions. Multiply and divide mixed numbers and top heavy fractions.	Calculate with fractions using the order of operations. Solve problems involving equivalent perimeters including the use of properties of shapes. Solve area of triangle/trapezia problems involving basic algebra. Generate terms of a sequence using a term to term rule to generate a non-standard sequence. Identify whether a number is part of a geometric sequence. Calculate averages from bar charts. Find the median from an ungrouped frequency table Interpret a pie chart to find frequencies given total. Use a ruler and compass to construct a right angle, 45 and 60 degrees	Order a set of decimals and integers. Use the signs <, > and = to compare numbers. Multiply and divide by powers of 10. Add and subtract decimals and directed numbers. Multiply up to four digits by two digits. Round to a specified number of decimal places or significant figures. Convert between metric units. Use prime decomposition to write a number as a product of prime factors. Recognise square and cube numbers. Find HCF and LCM in simple cases. Collect like terms. Expand a single bracket. Substitute into expressions and formulae. Use correct geometric notation. Understand angle properties of points, straight lines and triangles. Simplify and order fractions.	Add/subtract fractions and mixed numbers. Calculate area and perimeter of compound rectilinear shapes, including with missing lengths. Find the area of triangles and trapezia. Generate terms of a sequence from a term to term rule. Generate Fibonacci style sequences. Identify arithmetic, geometric and Fibonacci sequences and continue them. Find the nth term of a linear sequence. Plot and read coordinates in all four quadrants. Plot, sketch and name the lines $x = ?$ and $y = ?$ Find the mode, median and mean of a set of numbers. Understand bar charts and stem and leaf diagrams. Construct triangles, angle bisectors and perpendicular bisectors	
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	<b>Emerging learner</b>	Order a set of decimals and integers. Use the signs <, > and = to compare numbers. Multiply and divide by powers of 10. Add and subtract decimals and directed numbers. Multiply up to four digits by two digits. Round to a specified number of decimal places or significant figures. Convert between metric units. Use prime decomposition to write a number as a product of prime factors. Recognise square and cube numbers. Find HCF and LCM in simple cases. Collect like terms. Expand a single bracket. Substitute into expressions and formulae. Use correct geometric notation. Understand angle properties of points, straight lines and triangles. Simplify and order fractions.	Add/subtract fractions and mixed numbers. Calculate area and perimeter of compound rectilinear shapes, including with missing lengths. Find the area of triangles and trapezia. Generate terms of a sequence from a term to term rule. Generate Fibonacci style sequences. Identify arithmetic, geometric and Fibonacci sequences and continue them. Find the nth term of a linear sequence. Plot and read coordinates in all four quadrants. Plot, sketch and name the lines $x = ?$ and $y = ?$ Find the mode, median and mean of a set of numbers. Understand bar charts and stem and leaf diagrams. Construct triangles, angle bisectors and perpendicular bisectors.	Multiply and divide integers by powers of 10. Add and subtract integers by a formal written method. Multiply a 2 digit number by a 2 digit number. Divide by a 1 digit number with no remainder. Round a number to the nearest 10 or 100. Find factors and multiples of numbers. Multiply a positive integer by a bracket. Use function machines. Recognise common 2D shapes and describe the properties of these shapes. Measure and draw angles less than $180^\circ$ . Order fractions with the same denominator. Convert between mixed numbers and fractions.	Add/subtract proper fractions with different denominators. Find the area and perimeter of rectangles and parallelograms. Find the area of a triangle. Recognise and continue simple linear sequences and sequences of square and cube numbers. Find the nth term of an ascending linear sequence. Plot coordinates in the positive quadrant only. Find the mode and median of a set of numbers. Construct frequency tables, bar charts and pictograms. Use a compass to draw a circle. Use a protractor to construct an angle.	Know number bonds to 20. Complete simple addition by counting on. Recognise simple fractions. Recite times tables by 'counting on' each time. Name common 2D shapes. Understand subtraction as counting backwards. Order a set of positive integers.	Add and subtract fractions with the same denominator. Find area and perimeter by counting squares. Continue simple sequences and sequences of pictures. Find the mode and range of a set of data. Use a ruler to draw a line of given length.