

		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>	Solve more complex problems involving fractions, decimals and percentages. Understand compound interest and depreciation. Combine two ratios. Prove a more complex expression is a multiple of a given number. Construct and solve linear equations from worded descriptions in a wide range of contexts. Change the subject of a formula involving squares and roots	Solve problems involving FDP with percentages change. Work with compound interest. Calculate areas and perimeters of compound shapes that include parts of a circle. Calculate the surface area of compound shapes. Solve problems involving converting between units of volume.	Multiply and divide any decimal numbers. Convert mixed numbers to decimals and percentages. Calculate the outcome of a percentage increase/decrease. Solve problems involving the difference between two ratios. Collect like terms where multiple pairs of brackets require expanding. Prove an expression is a multiple of a given number. Construct and solve linear equations from worded descriptions. Change the subject of a formula where multiple steps are required. Construct and solve equations equating two expressions in the same unknown - same area/perimeter.	Use bearings to solve problems. Construct a route involving scale drawings on a map. Solve problems involving percentage change and simple interest. Calculate an expected frequency given probability and number of trials. Calculate arc lengths and sector areas, including leaving answers in terms of pi. Calculate the volumes of compound shapes.	Multiply two decimals together up to 2dp. Divide by a decimal up to 2dp. Divide a decimal by an integer. Convert between fractions, decimals and percentages. Calculate a percentage of an amount with and without a calculator. Convert between fractions and ratios and divide a quantity in a given ratio. Substitute into formulae. Expand double brackets. Factorise expressions by taking out common factors. Solve two step equations including where the answer is a negative or fraction. Solve linear equations with unknowns on both sides. Use the nth term to calculate if a term is in a sequence or not.	Draw and measure bearings. Work with scale drawings. Find the original amount given the outcome of a percentage change. Understand the probability scale and the theoretical probability of something happening using a fraction. Find the circumference and area of a circle. Identify common nets of 3D shapes and calculate the surface area. Find the volume of prisms. Draw plans and elevations of 3D shapes.	
<b>Secure learner</b>	Multiply and divide any decimal numbers. Convert mixed numbers to decimals and percentages. Calculate the outcome of a percentage increase/decrease. Solve problems involving the difference between two ratios. Collect like terms where multiple pairs of brackets require expanding. Prove an expression is a multiple of a given number. Construct and solve linear equations from worded descriptions. Change the subject of a formula where multiple steps are required. Construct and solve equations equating two expressions in the same unknown - same area/perimeter.	Use bearings to solve problems. Construct a route involving scale drawings on a map. Solve problems involving percentage change and simple interest. Calculate an expected frequency given probability and number of trials. Calculate arc lengths and sector areas, including leaving answers in terms of pi. Calculate the volumes of compound shapes.	Multiply two decimals together up to 2dp. Divide by a decimal up to 2dp. Divide a decimal by an integer. Convert between fractions, decimals and percentages. Calculate a percentage of an amount with and without a calculator. Convert between fractions and ratios and divide a quantity in a given ratio. Substitute into formulae. Expand double brackets. Factorise expressions by taking out common factors. Solve two step equations including where the answer is a negative or fraction. Solve linear equations with unknowns on both sides. Use the nth term to calculate if a term is in a sequence or not.	Draw and measure bearings. Work with scale drawings. Find the original amount given the outcome of a percentage change. Understand the probability scale and the theoretical probability of something happening using a fraction. Find the circumference and area of a circle. Identify common nets of 3D shapes and calculate the surface area. Find the volume of prisms. Draw plans and elevations of 3D shapes.	Multiply integers of any size. Divide integers of any size to give an integer answer. Interpret a percentage as a fraction out of 100. Calculate a fraction of an amount. Reduce a ratio to it's simplest form. Substitute into formulae involving single letters e.g. $A = x + y - 7$ . Expand single brackets including indices. Find common factors of pairs of integers. Solve one-step equations.	Measure a bearing with a protractor. Convert between metric units. Find a percentage of an amount. Calculate a percentage increase/decrease. Describe the probability of an event and understand the probability scale from 0 to 1. List the possible outcomes for an experiment (sample space). Name the parts of a circle. Recall the formulae for circumference and area. Name 3D shapes and identify vertices, edges and faces. Calculate the volume of a shape by counting cubes.	
<b>Emerging learner</b>	Multiply two decimals together up to 2dp. Divide by a decimal up to 2dp. Divide a decimal by an integer. Convert between fractions, decimals and percentages. Calculate a percentage of an amount with and without a calculator. Convert between fractions and ratios and divide a quantity in a given ratio. Substitute into formulae. Expand double brackets. Factorise expressions by taking out common factors. Solve two step equations including where the answer is a negative or fraction. Solve linear equations with unknowns on both sides. Use the nth term to calculate if a term is in a sequence or not.	Draw and measure bearings. Work with scale drawings. Find the original amount given the outcome of a percentage change. Understand the probability scale and the theoretical probability of something happening using a fraction. Find the circumference and area of a circle. Identify common nets of 3D shapes and calculate the surface area. Find the volume of prisms. Draw plans and elevations of 3D shapes.	Multiply integers of any size. Divide integers of any size to give an integer answer. Interpret a percentage as a fraction out of 100. Calculate a fraction of an amount. Reduce a ratio to it's simplest form. Substitute into formulae involving single letters e.g. $A = x + y - 7$ . Expand single brackets including indices. Find common factors of pairs of integers. Solve one-step equations.	Measure a bearing with a protractor. Convert between metric units. Find a percentage of an amount. Calculate a percentage increase/decrease. Describe the probability of an event and understand the probability scale from 0 to 1. List the possible outcomes for an experiment (sample space). Name the parts of a circle. Recall the formulae for circumference and area. Name 3D shapes and identify vertices, edges and faces. Calculate the volume of a shape by counting cubes.	Know times tables up to 12x12. Understand division as the inverse of multiplication. Calculate simple fractions of amounts. Solve simple equations presented as a 'fill in the missing number' problem.	Measure an angle with a protractor. Measure a line with a ruler. Convert a percentage to a fraction. Give an example of an event that is certain/impossible. Know some of the parts of a circle. Know the difference between a 2D and 3D shape.	