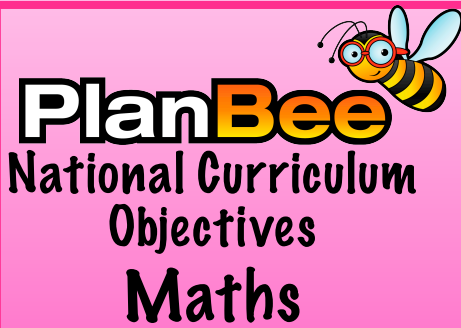


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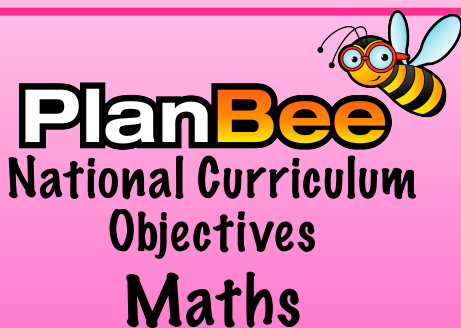


Group:

Year:

Number - number and place value	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit	Autumn																			
		Spring																			
		Summer																			
	round any whole number to a required degree of accuracy	Autumn																			
		Spring																			
		Summer																			
	use negative numbers in context, and calculate intervals across zero	Autumn																			
		Spring																			
		Summer																			
	solve number and practical problems that involve all of the above	Autumn																			
		Spring																			
		Summer																			

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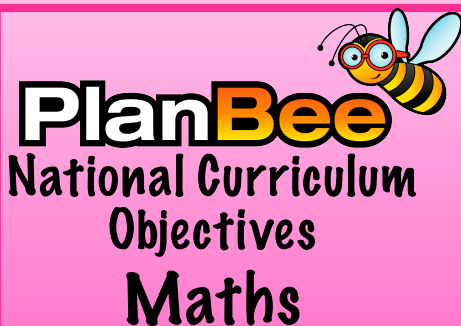


Group:

Year:

Number - addition, subtraction, multiplication and division	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Autumn																		
		Spring																		
		Summer																		
	divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context	Autumn																		
		Spring																		
		Summer																		
	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	Autumn																		
		Spring																		
		Summer																		
	perform mental calculations, including with mixed operations and large numbers	Autumn																		
		Spring																		
		Summer																		
identify common factors, common multiples and prime numbers	Autumn																			
	Spring																			
	Summer																			

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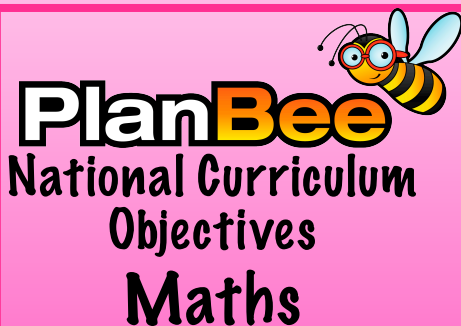


Group:

Year:

Number - addition, subtraction, multiplication and division	use their knowledge of the order of operations to carry out calculations involving the four operations	Autumn																		
		Spring																		
		Summer																		
	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Autumn																		
		Spring																		
		Summer																		
	solve problems involving addition, subtraction, multiplication and division	Autumn																		
		Spring																		
		Summer																		
	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Autumn																		
		Spring																		
		Summer																		

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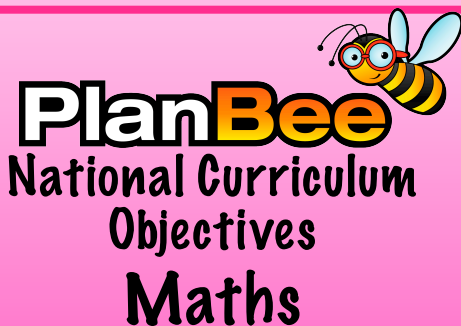


Group:

Year:

Fractions (including decimals and percentages)	use common factors to simplify fractions; use common multiples to express fractions in the same denomination	Autumn																		
		Spring																		
		Summer																		
	compare and order fractions, including fractions > 1	Autumn																		
		Spring																		
		Summer																		
	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Autumn																		
		Spring																		
		Summer																		
	multiply simple pairs of proper fractions, writing the answer in its simplest form	Autumn																		
		Spring																		
		Summer																		
	divide proper fractions by whole numbers	Autumn																		
		Spring																		
		Summer																		
	associate a fraction with division and calculate decimal fraction equivalents for a simple fraction	Autumn																		
		Spring																		
		Summer																		

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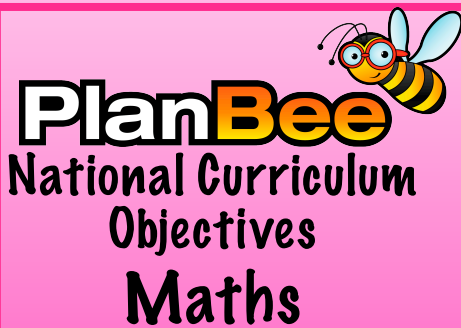
Group:

Year:

Fractions (including decimals and percentages)

identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places	Autumn																		
	Spring																		
	Summer																		
multiply one-digit numbers with up to two decimal places by whole numbers	Autumn																		
	Spring																		
	Summer																		
use written division methods in cases where the answer has up to two decimal places	Autumn																		
	Spring																		
	Summer																		
solve problems which require answers to be rounded to specified degrees of accuracy	Autumn																		
	Spring																		
	Summer																		
recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	Autumn																		
	Spring																		
	Summer																		

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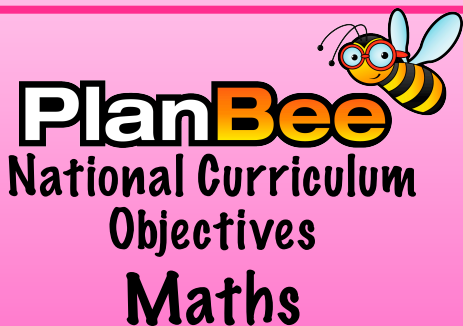


Group:

Year:

Ratio and Proportion	solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	Autumn																		
		Spring																		
		Summer																		
	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	Autumn																		
		Spring																		
		Summer																		
	solve problems involving similar shapes where the scale factor is known or can be found	Autumn																		
		Spring																		
		Summer																		
	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	Autumn																		
		Spring																		
		Summer																		

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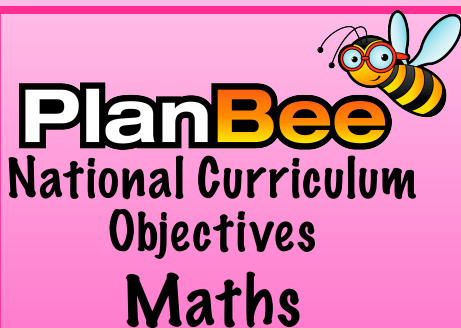


Group:

Year:

Algebra	use simple formulae	Autumn																	
		Spring																	
		Summer																	
	generate and describe linear number sequences	Autumn																	
		Spring																	
		Summer																	
	express missing number problems algebraically	Autumn																	
		Spring																	
		Summer																	
	find pairs of numbers that satisfy an equation with two unknowns	Autumn																	
		Spring																	
		Summer																	
enumerate possibilities of combinations of two variables	Autumn																		
	Spring																		
	Summer																		

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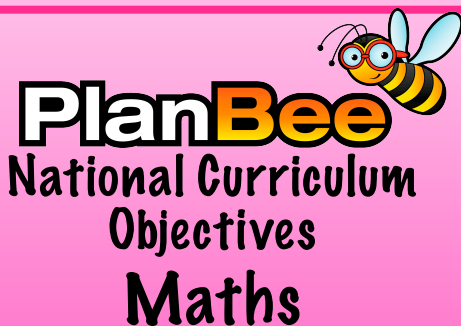


Group:

Year:

Measurement	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	Autumn																		
		Spring																		
		Summer																		
	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places	Autumn																		
		Spring																		
		Summer																		
	convert between miles and kilometres	Autumn																		
		Spring																		
		Summer																		
	recognise that shapes with the same areas can have different perimeters and vice versa	Autumn																		
		Spring																		
		Summer																		
	recognise when it is possible to use formulae for area and volume of shapes	Autumn																		
		Spring																		
		Summer																		
	calculate the area of parallelograms and triangles	Autumn																		
		Spring																		
		Summer																		
	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units	Autumn																		
		Spring																		
		Summer																		

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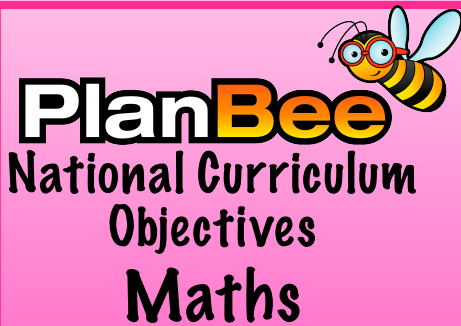


Group:

Year:

		Autumn																
Geometry - properties of shapes	draw 2-D shapes using given dimensions and angles	Autumn																
		Spring																
		Summer																
	recognise, describe and build simple 3-D shapes, including making nets	Autumn																
		Spring																
		Summer																
	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	Autumn																
		Spring																
		Summer																
	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	Autumn																
		Spring																
		Summer																
recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Autumn																	
	Spring																	
	Summer																	

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Group:

Year:

Geometry - position and direction	describe positions on the full coordinate grid (all four quadrants)	Autumn																		
		Spring																		
		Summer																		
	draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Autumn																		
		Spring																		
		Summer																		
Statistics	interpret and construct pie charts and line graphs and use these to solve problems	Autumn																		
		Spring																		
		Summer																		
	calculate and interpret the mean as an average.	Autumn																		
		Spring																		
		Summer																		