

Part of the



Complete progression of skills and knowledge in Mathematics Years 1 - 6

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## Progression in Place Value





	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Count to and across 100,	Count in steps of 2, 3 and 5	Count from 0 in multiples of 4,	Count in multiples of 6, 7, 9,	Count forwards or backwards	Consolidate previous learning
o o	forwards and backwards,	from 0, and in tens from any	8, 50 and 100; find 10 or 100	25 and 1000.	in steps of powers of 10 for	
Place Value Counting	beginning with 0 or 1, or from	number, forwards and	more or less than a given	Count backwards through	any number up to 1 million.	
la e	any given number.	backwards.	number.	zero to include negative	Count forwards and	
Cor	Count in numbers to 100in			numbers.	backwards with positive and	
۵.	numerals; count in multiples				negative whole numbers,	
	of twos, fives and tens.				including through zero.	
Taught in:	Au1, Au4, Sp2, Su4	Au1	Au1, A3	Au1, Au4	Au1	
	Identify and represent	Read and write numbers to at	Identify, represent and	Identify, represent and	Read, write (order and	Read, write (order and
	numbers using objects and	least 100 in numerals and	estimate number using	estimate number using	compare) numbers to at least	compare) numbers to at least
it e	pictorial representations.	words.	different representations.	different representations.	1 million, and determine the	10 million, and determine the
Va ese	Read and write numbers to	Identify, represent and	Read and write numbers up to	Read Roman numerals to 100	value of each digit.	value of each digit.
Place Value Represent	100 in numerals.	estimate numbers using	1000 in numerals and words.	and know that over time, the	Read Roman numerals to	
Pla Re	Read and write numbers from	different representations,		numeral system changed to	1000 and recognise years	
	1 to 10 in numerals and	including the number line.		include the concept of zero	written in Roman numerals.	
	words.			and place value.		
				•		
Taught in:	Au1, Au4, Sp2, Su 4	Au1	Au1	Au1	Au1	Au1
	Given a number, identify one	Au1 Recognise the place value of	Recognise the place value of	·	Order and compare numbers	Order and compare numbers
		· ·	Recognise the place value of each digit in a three-digit	Au1 Find 1000 more or less than a given number.	Order and compare numbers to at least 1 million and	Order and compare numbers up to 10 million and
	Given a number, identify one	Recognise the place value of each digit in a two-digit number.	Recognise the place value of each digit in a three-digit number.	Au1 Find 1000 more or less than a given number. Recognise the place value of	Order and compare numbers	Order and compare numbers
	Given a number, identify one	Recognise the place value of each digit in a two-digit	Recognise the place value of each digit in a three-digit	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number.	Order and compare numbers to at least 1 million and	Order and compare numbers up to 10 million and
Place Value Use and Compare	Given a number, identify one	Recognise the place value of each digit in a two-digit number.	Recognise the place value of each digit in a three-digit number.	Au1 Find 1000 more or less than a given number. Recognise the place value of	Order and compare numbers to at least 1 million and determine the value of each	Order and compare numbers up to 10 million and determine the value of each
	Given a number, identify one	Recognise the place value of each digit in a two-digit number. Compare and order numbers	Recognise the place value of each digit in a three-digit number. Compare and order numbers	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number.	Order and compare numbers to at least 1 million and determine the value of each	Order and compare numbers up to 10 million and determine the value of each
	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000. Au1	Order and compare numbers to at least 1 million and determine the value of each digit.	Order and compare numbers up to 10 million and determine the value of each digit.
Place Value Use and Compare	Given a number, identify one more and one less.	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000. Au1 Round any number to the	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1 Interpret negative numbers in	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000. Au1 Round any number to the nearest 10, 100 or 1000.	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1 Interpret negative numbers in context.	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy.
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000. Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1 Interpret negative numbers in context. Round any number up to 1	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000.  Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1  Interpret negative numbers in context. Round any number up to 1 million to the nearest 100	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000.  Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1 Interpret negative numbers in context. Round any number up to 1	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000.  Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1  Interpret negative numbers in context. Round any number up to 1 million to the nearest 100	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across intervals across zero.
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000.  Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1  Interpret negative numbers in context. Round any number up to 1 million to the nearest 100	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across intervals
Place Value Use and Compare	Given a number, identify one more and one less.  Au1, Au4, Sp2, Su4	Recognise the place value of each digit in a two-digit number. Compare and order numbers from 0 up to 100. Use <,> and = signs. Au1 Use place value and number	Recognise the place value of each digit in a three-digit number. Compare and order numbers to 1000.  Au1 Solve number problems and practical problems involving	Au1 Find 1000 more or less than a given number. Recognise the place value of each digit a 4-digit number. Order and compare numbers beyond 1000.  Au1 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive	Order and compare numbers to at least 1 million and determine the value of each digit.  Au1  Interpret negative numbers in context. Round any number up to 1 million to the nearest 100	Order and compare numbers up to 10 million and determine the value of each digit.  Au1  Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across intervals across zero.



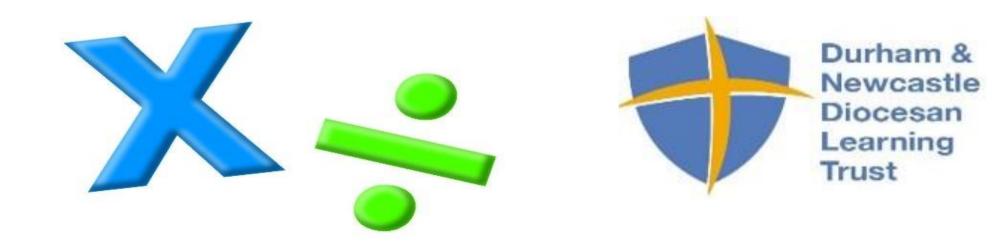
# Progression in Addition and Subtraction



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition and Subtraction Recall, Represent, Use	Read, write and interpret mathematical statements involving add, subtract and equals signs. Represent and use number bonds and related subtraction facts within 20	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.  Show that addition of 2 numbers can be done in any order (commutative) and subtraction cannot.  Recognise and use the inverse relationship between + and – and use this to check calculations and solve problems.	Estimate the answer to a calculation and use the inverse operations to check answers.	Estimate and use inverse operations to check answers to a calculation.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	Review previous learning
Taught in:	Au2, Sp1	Au2	Au2	Au2	Au2	
Addition and Subtraction Calculations	Add and subtract 1 and 2 digit numbers to 20, including zero.	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2 digit number and ones, a 2 digit numbers and tens, two 2-digit numbers, adding 3 one digit numbers.	Add and subtract numbers mentally, including: a 3-digit number and ones, a 3-digit number and tens, a 3-digit number and hundreds. Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	Add and subtract whole numbers with more than 4 digits, including using formal written methods. Add and subtract numbers mentally with increasingly large numbers.	Perform mental calculations, including with mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving the 4 operations.
Taught in:	Au2, Sp1	Au2	Au2	Au2	Au2	Au2
Addition and Subtraction Problem Solving	Solve 1-step problems that involve addition and subtraction, using concrete and pictorial.  Complete missing number problems such as 7=? +9.	Solve problems with addition and subtraction: Using concrete and pictorial, including those involving numbers, quantities and measures. Applying their increasing knowledge of mental and written methods.	Solve problems including missing number problems, using number facts, place value, and more complex addition and subtraction.	Solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Taught in:	Au2, Sp1	Au2	Au2	Au2	Au2	Au2



# Progression in Multiplication and Division

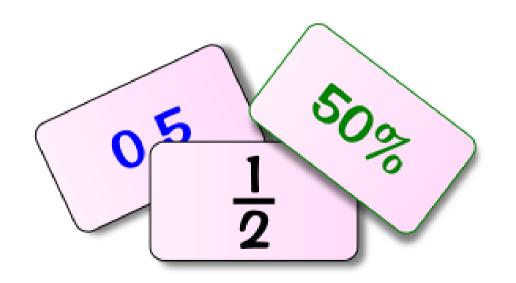


	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and division: Recall, Represent, Use	NA	Recall and use multiplication and division facts for the 2, 5 and 10 x tables, including recognising odd and even numbers.  Show that multiplication of 2 numbers can be done in any order (commutative) and division cannot.	Recall and use multiplication and division facts for the 3, 4 and 8 x tables.	Recall multiplication and division facts for times tables to 12 x 12. Use place value, known and derived facts to multiply, and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying 3 numbers. Recognise and use factor pairs and commutativity in mental calculations.	Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers. Know and use the vocabulary of prime numbers, prime factors and composite numbers.  Establish whether a number to 100 is prime and recall primes to 19.  Recognise square and cube numbers.  Use notation for square and cube numbers.	Identify common factors, common multiples and prime numbers. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Taught in:		Au4, Sp1	Au3	Au4, Sp1	Au4	Au2
Multiplication and division: Calculations	NA	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the x, ÷ and = signs.	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers x 1-digit, using mental methods and progressing to formal written methods.	Multiply 2-digit by a 1-digit number using formal written layout.	X numbers up to 4 digits by a 1-digit using a formal written method, including long multiplication for 2-digit numbers.  X and ÷ numbers mentally drawing upon known facts.  ÷ numbers up to 4 digits by a 1-digit using formal short division and interpret remainders for the context.  X and ÷ whole numbers and decimals by 10, 100 and 1000.	X numbers up to 4 digits by 1-digit using a formal written method, including long X.  ÷ up to 4 digits by a 2-digit whole number using formal long ÷, and interpret remainders as fractions or by rounding.  ÷ numbers up to 4 digits by a 2-digit number using formal short ÷interpreting remainders.  Perform mental calculations, including with mixed operations and large numbers.
Taught in:		Au4, Sp1	Au3, Sp1	Sp1	Au4, Sp1, Su1	Au2

Multiplication and division: Solve Problems	Solve 1 step problems involving multiplication and division, by calculating the answer using concrete and pictorial representations and arrays with the support of an adult.	Solve 1 step problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Solve problems involving multiplying and adding, including the distributive law to multiply 2-digit by 1-digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Solve problems involving X and ÷ including using their knowledge of factors and multiples, squares ad cubes. Solve problems involving X and ÷, including scaling by simple fractions and problems involving simple rates.	Solve problems involving +, -, X and ÷.
Taught in:	Su1	Au4, Sp1	Sp1	Sp1	Au4, Sp1	Au2
Multiplication and division: Combined Operations	NA	NA	NA	NA	Solve problems involving +, -, X and ÷ and a combination of these, including understanding the meaning of the = sign.	Use their knowledge of the order of operations to carry out calculations involving the four operations.
Taught in:					Sp1	Au2



## Progression in Fractions, Decimals and Percentages





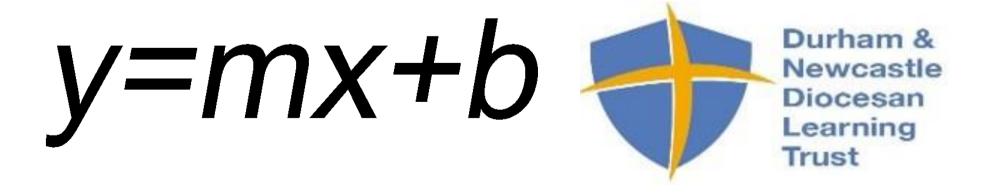
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Recognise and Write	Recognise, find and name a half as one of 2 equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of 4 equal parts of an object, shape or quantity.	Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a shape, length, set of objects or quantity.	Count up and down in tenths; Recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10. Recognise, find and write fractions of a discrete set of objects: Unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: Unit fractions with small denominators.	Count up and down in hundredths; Recognise that hundredths arise from dividing an object by 100 and dividing 10ths by 10.	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.  Recognise mixed numbers and improper fractions and convert from one form to another and write mathematical statements >1 as a mixed number.	Review previous learning.
Taught in:	Su2	Sp4	Sp5	Sp3	Sp2	
Fractions: Compare	NA	Recognise the equivalence of 2/4 and ½.	Recognise and show diagrams, equivalent fractions with small denominators.  Compare and order unit fractions, and fractions with the same denominator.	Recognise and show, using diagrams, families of common equivalent fractions.	Compare and order fractions whose denominators are all multiples of the same number.	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.  Compare and order fractions, including fractions >1.
Taught in:		Sp4	Su1	Sp3	Sp2	Au3
Fractions: Calculations	NA	Write simple fractions e.g. ½ of 6 = 3.	Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7.	Add and subtract fractions with the same denominator.	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.  Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.  Multiply simple pairs of proper fractions, writing the answer in the simplest form.  Divide proper fractions by whole numbers.
Taught in:		Sp4	Su1	Sp3	Sp3	Au3

		Γ	I a	I	T	T
o o	NA	NA	Solve problems that involve	Solve problems involving	Review previous learning	Review previous learning
s s			all of the above.	increasingly harder fractions		
ctions: So Problems				to calculate quantities, and		
ons ple				fractions to divide quantities,		
Pro				including non-unit fractions		
Fractions: Solve Problems				where the answer is a whole		
-				number.		
Taught in:			Sp5, Su1	Sp3		
	NA	NA	NA	Recognise and write decimal	Read and write decimal	Identify the value of each
Decimals, Recognise and Write				equivalents of any number of	numbers as fractions e.g. 0.71	digit in numbers given to 3
als, e a e				tenths or hundredths.	= 71/100.	decimal places.
Decimals, cognise a Write				Recognise and write decimal	Recognise and use	
og V				equivalents to ¼, ½, 1/3.	thousandths and relate them	
Sec .					to tenths, hundredths and	
_					decimal equivalents.	
Taught in:				Sp4, Su1	Sp3	Sp1
	NA	NA	NA	Round decimals with 1	Round decimals with 2	Review previous learning
Decimals: Compare				decimal place to the nearest	decimal place to the nearest	
ğ u				whole number.	whole number and 1 decimal	
, jo				Compare numbers with the	place.	
) :s				same number of decimal	Read, write, order and	
nal				places up to 2 decimal places.	compare numbers with up to	
cir				places up to 2 decimal places.	3 decimal places.	
ă					5 declinal places.	
Taught in:				Su1	Sp3	
S	NA	NA	NA	Find the effect of dividing a 1	Solve problems involving	Multiply and divide numbers
Ë				or 2-digit number by 10 and	number up to 3 decimal	by 10, 100 and 1000, giving
ppe				100, identifying the value of	places.	answers up to 3 decimal
Pro				the digits in the answer as		places.
l b				ones, tens and hundredths.		Multiply 1-digit numbers with
Decimals: Calculations and Problems				,		up to 2 decimal places by
Suc						whole numbers.
ati						Use written division methods
jg						in cases where the answer
Sale						has up to 2 decimal places.
) :s						Solve problems, which
la l						
cin						require answers to be
De						rounded to specified degrees
						of accuracy.
Taught in:				Sp4	Su1	Sp1

		T	I	Solve simple measure and	Recognise the % symbol and	Associate a fraction with
				money problems involving	understand that percent	division and calculate decimal
9				fractions and decimals to 2	means 'parts per hundred',	fraction equivalents.
Fractions, Decimals and Percentages				decimal places.	and write percentages as a	Recall and use equivalences
ials es				decimal places.	fraction with a denominator	between simple fractions,
ons, Decimal Percentages					of 100 and as a decimal.	decimals and percentages,
De					Solve problems, which	including in different
ns, erc					require knowing % and	contexts.
Fig.					decimal equivalents of ½, ¼,	contexts.
rac					1/5, 2/5 and 4/5 and with	
T.					those fractions with a	
					denominator of 10 or 25.	
Taught in:				Sp3, Sp4, Su1	Sp3	Sp1, Sp2
Taught iii.	NA	NA	NA	NA	NA SPS	Solve problems involving the
						relative sizes of two
						quantities where missing
						values can be found by using
						integer multiplication and
<b>c</b>						division facts.
윤						Solve problems involving the
ō						calculation of percentages
and Proportion						and the use of percentages
<del> </del> <u> </u> <u> </u>						for comparison.
a O						Solve problems involving
Ratio						similar shapes where the
~						scale factor is known or can
						be found.
						Solve problems involving
						unequal sharing and grouping
						using knowledge of fractions
<del>-</del>						and multiples.
Taught in:						Sp6



## Progression in Algebra



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algebra	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	Solve problems including missing number problems.	NA	NA	Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.
Taught in:	Covered within Addition and Subtraction. Au2	Covered within Addition and Subtraction. Au2	Covered within Addition and Subtraction. Au2			Sp3



## Progression in Measure





	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Using Measure	Compare, describe and solve practical problems for lengths and heights, mass and weight, capacity and volume.  Measure and begin to record lengths and heights, mass and weight, capacity and volume, time.	Choose and use appropriate standard units to estimate and measure length and height, mass, temperature and capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.  Compare and order lengths, mass, volume, capacity and record the results using <,> and =.	Measure, compare add and subtract lengths, mass, volume and capacity.	Convert between different units of measure e.g. km to m, hour to min. Estimate, compare and calculate different measures.	Convert between different units of measure e.g. km, m, cm and mm; g and kg; l and ml. Understand and use approximate equivalences between metric units and common imperial units such as pounds, inches and pints. Use all 4 operations to solve problems involving measure.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.  Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit to larger and vice versa, using decimal notation up to 3 decimal places.  Convert between miles and km.
Taught in:	Sp3, Sp4, Su6	Sp5, Su4	Sp4, Su4	Au3, Sp2, Su5	Su1, Su4, Su5	Sp4
Measurement: Money	Recognise and know the value of different denominations of coins and notes.	Recognise and use symbols for £ and P; combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition, subtraction of money of the same unit, including giving change.	Add and subtract amounts of money to give change, using both £ and P in practical contexts.	Estimate, compare and calculate different measures, including money in pounds and pence.	Use all four operations to solve problems involving measure.	Review previous learning.
Taught in:	Su5	Au3	Sp2	Su2	Su1	

	Sequence events in chronological order using	Compare and sequence intervals of time.	Tell and write the time from analogue clock, including using	Read, write and convert time between analogue and digital	Solve problems involving converting between units of	Use, read, write and convert between standard units,
	language.	Tell and write the time to 5	Roman numerals from I to XII,	12 and 24 hour clocks.	time.	converting measurements of
	Recognise and use	mins, including quarter past/to	and 12-hour and 24 hour	Solve problems involving		time from a smaller unit to a
	language related to dates,	the hour and draw the hands	clocks.	converting from hours to mins,		larger and vice versa.
l a	including days of the week,	on a clock face.	Estimate and read time with	mins to secs, years to months,		
<u>F.</u>	weeks, months and years.	Know the number of mins in	increasing accuracy to the	weeks to days.		
l ti	Tell the time to the hour	an hour and the number of	nearest min; record and			
Į	and half past the hour and	hours in a day.	compare time in terms of secs,			
nre	draw the hands on a clock		mins and hours; use			
Measurement: Time	face.		vocabulary such as o'clock,			
ž			am/pm, morning, afternoon,			
			midnight, noon.			
			Know the number of secs in a			
			min and days in each month,			
			year and leap year.			
			Compare durations of events.			
Taught in:	Su6	Su3	Su2	Su3	Su4	Su4
	NA	NA	Measure the perimeter of	Measure and calculate the	Measure and calculate the	Recognise that shapes with the
and			simple 2-D shapes.	perimeter of a rectilinear	perimeter of composite	same area can have different
area				figure in cm and m.	rectilinear shapes in cm and m.	perimeters and vice versa.
, a				Find the area of a rectilinear	Calculate and compare the	Recognise when it is possible
ter,				shape by counting squares.	area of rectangles, and	to use a formula for area and
e a					including using standard units,	volume of shapes.
I -≔ E						
ia i					square cm and square m and	Calculate the area of
t: Perime volume					estimate the area of irregular	parallelograms and triangles.
ent: Per volui					estimate the area of irregular shapes.	parallelograms and triangles. Calculate, estimate and
ement: Per volui					estimate the area of irregular	parallelograms and triangles. Calculate, estimate and compare volume of cubes and
surement: Per volui					estimate the area of irregular shapes.	parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units,
leasurement: Per volui					estimate the area of irregular shapes.	parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic cm and cubic m
Measurement: Perimeter, volume					estimate the area of irregular shapes.	parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic cm and cubic m and extending to other units
Measurement: Per volui			Sp4	Au3, Sp2	estimate the area of irregular shapes.	parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic cm and cubic m



## Progression in Geometry





	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry: 2D Shapes	Recognise and name common 2D shapes.	Identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line. Identify 2D shapes on the surface of 3D shapes. Compare and sort common 2D shapes and everyday objects.	Draw 2D shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2D shapes presented in different orientations.	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.  Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes. Illustrate and name parts of a circle, including radius, diameter and circumference. Know that the diameter is twice the size of the radius.
Taught in:	Au3	Sp3	Su3	Su5	Su2	Su1
Geometry: 3D Shapes	Recognise and name common 3D shapes.	Recognise and name common 3D shapes. Compare and sort common 3D shapes and everyday objects.	Make 3D shapes using modelling materials. Recognise 3D shapes in different orientations and describe them.	NA	Identify 3D shapes from 2D representations.	Recognise, describe and build 3D shapes, including making nets.
Taught in:	Au3	Sp3	Su3		Su2	Su1
Geometry: Angles and lines	NA	NA	Recognise angles are a property of a shape or a description of a turn. Identify right angles, recognise that 2 right angles make a half turn, 3 right angles make a ¾ turn and 4 right angles make a full turn. Identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular lines.	Identify acute and obtuse angles and compare and order up to 2 right angles by size. Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.	Know angles are measured in degrees. Estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees. Identify angles at a point and one whole turn, angles at a point on a straight line and ½ turn, other multiples of 90.	Find unknown angles in any triangles, quadrilateral, and regular polygons. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Taught in:			Su3	Su5	Su2	Su1

_	Describe position, direction	Order and arrange	NA	Describe positions on a grid as	Identify, describe and	Describe positions on the full
ectior	and movement, including	combinations of mathematical		coordinates in the first	represent the position of a	coordinate grid (all 4
	whole, half, quarter and	objects in patterns and		quadrant.	shape following a reflection or	quadrants).
<u>pi</u>	three quarter turns.	sequences.		Describe movements between	translation, using the	Draw and translate simple
Pu		Use mathematical vocabulary		positions as translations of a	appropriate language, and	shapes on the coordinate
В		to describe position, direction		given unit to the left/right and	know that the shape has not	plane, and reflect them in the
ţį		and movement, including		up/down.	changed.	axis.
osi		movement in a straight line		Plot specified points and draw		
<del> </del>		and distinguishing between		sides to complete a given		
etr		rotation as a turn and in terms		polygon.		
Ĕ		of right angles for quarter, half				
] 3ec		and three-quarter turns				
		(clockwise and anti-clockwise).				
Taught in:	Su3	Sp3, Su1		Su6	Su3	Au4



### Progression in Statistics





	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics: Present and interpret	NA	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Interpret and present data using bar charts, pictograms and tables.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	Complete, read and interpret information in tables, including timetables.	Interpret and construct pie charts and line graphs and use to solve problems.
Taught in:	Sp2	Sp3	Su4	Au3	Au3	Su3
Statistics: Solve problems	NA	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.	Solve one and two-step questions using information presented in scaled bar charts and pictograms and tables.	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other groups.	Solve comparison, sum and difference problems using information presented in a line graph.	Calculate and interpret the mean as an average.
Taught in:		Sp2	Sp3	Su4	Au3	Su3