



Key: * first time attainment target is covered ** consolidation ↓ NC objective in a year below ↑ NC objective in a year above

Abacus always covers the content of the National Curriculum within the paired age range (i.e. Y1/2, Y3/4, 5/6). Very occasionally Abacus postpones something from the first year of a range e.g. Year 3 and teaches it in Year 4. This is to ensure a rigorous progression in terms of children's acquisition of mathematical skills. Less occasionally Abacus teaches something from the second year of an age range in the first year. This is to ensure that the building blocks are in place for more challenging topics and to allow critical and challenging skills to be consolidated and revisited.

Abacus			National Curriculum in England		
Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
1	Mental addition and subtraction (MAS)	Find pairs with a total of 100; add to the next multiple of 100 and subtract to the previous multiple of 100; subtract by counting up to find a difference; adding several numbers	4	Number - addition and subtraction	*Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			3	Number - addition and subtraction	↓**Y3.NAS.4 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
2	Number and place-value (NPV); Mental addition and subtraction (MAS)	Read, write 4-digit numbers and know what each digit represents; compare 4-digit numbers using < and > and place on a number line; add 2-digit numbers mentally; subtract 2-digit and 3-digit numbers	4	Number - number and place value	*Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
			4	Number - number and place value	*Y4.NPV.5 order and compare numbers beyond 1000
			4	Number - number and place value	*Y4.NPV.6 identify, represent and estimate numbers using different representations
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
3	Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Learn \times and \div facts for the 6 and 9x tables and identify patterns; multiply multiples of 10 by 1-digit numbers; multiply 2-digit numbers by 1-digit numbers (the grid method); find fractions of amounts	4	Number- multiplication and division	*Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12×12
			4	Number- multiplication and division	*Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number- multiplication and division	*Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
			4	Number-fractions	*Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
4	Measurement (MEA); Mental addition and subtraction (MAS); Decimals, percentages and their equivalence to fractions (DPE)	Tell and write the time to the minute on analogue and digital clocks; calculate time intervals; measure in metres, centimetres and millimetres; convert lengths between units; record using decimal notation	4	Measurement	*Y4.M.5 read, write and convert time between analogue and digital 12- and 24-hour clocks
			3	Measurement	↓**Y3.M.7 compare durations of events [for example to calculate the time taken by particular events or tasks]
			3	Measurement	↓**Y3.M.1 measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)



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5	Written addition and subtraction (WAS)	Add two 3-digit numbers using column addition; subtract a 3-digit number from a 3-digit number using an expanded column method (decomposing only in one column)	4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
6	Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Double 3-digit numbers and halve even 3-digit numbers; revise unit fractions; identify equivalent fractions; reduce a fraction to its simplest form; count in fractions (each fraction in its simplest form)	4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number- multiplication and division	*Y4.NMD.5 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
			4	Number-fractions	**Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
			3	Number-fractions	↓**Y3.NF.6 compare and order unit fractions, and fractions with the same denominators
			4	Number-fractions	*Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions
7	Number and place-value (NPV); Written addition and subtraction (WAS); Decimals, percentages and their equivalence to fractions (DPE)	Look at place-value in decimals and the relationship between tenths and decimals; add two 4-digit numbers; practise written and mental addition methods; use vertical addition to investigate patterns	3	Number-fractions	↓**Y3.NF.1 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
			4	Number-fractions	*Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
8	Measurement (MEA); Statistics (STA)	Convert multiples of 100g into kilograms; convert multiples of 100ml into litres; read scales to the nearest 100ml; estimate capacities; draw bar charts, record and interpret information	4	Measurement	*Y4.M.1 convert between different units of measure [for example, kilometre to metre; hour to minute]
			4	Measurement	*Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
			4	Statistics	*Y4.S.1 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
			4	Statistics	*Y4.S.2 solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs



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9	Number and place-value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS)	Round 4-digit numbers to the nearest: 10, 100 and 1000; subtract 3-digit numbers using the expanded written version and the counting up mental strategy and decide which to use	4	Number - number and place value	**Y4.NPV.7 round any number to the nearest 10, 100 or 1000
			3	Number - addition and subtraction	↓**Y3.NAS.2 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Number - addition and subtraction	*Y4.NAS.2 estimate and use inverse operations to check answers to a calculation
10	Mental multiplication and division (MMD); Written multiplication and division (WMD)	Use the grid method to multiply 3-digit by 1-digit numbers and introduce the vertical algorithm; begin to estimate products; divide numbers (up to 2 digits) by 1-digit numbers with no remainder, then with a remainder	4	Number- multiplication and division	**Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
			4	Number- multiplication and division	**Y4.NMD.5 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
			4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
11	Number and place-value (NPV)	Place 4-digit numbers on landmarked lines; 0-10,000 and 1000-2000; round 4-digit numbers to the nearest 10, 100 and 1000; mentally add and subtract to/from 4-digit and 3-digit numbers using place-value; count on and back in multiples of 10, 100 and 1000; count on in multiples of 25 and 50; add and subtract multiples of 10 and 100 to/from 4-digit numbers	4	Number - number and place value	**Y4.NPV.6 identify, represent and estimate numbers using different representations
			4	Number - number and place value	**Y4.NPV.7 round any number to the nearest 10, 100 or 1000
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Number - number and place value	*Y4.NPV.1 count in multiples of 6, 7, 9, 25 and 1000
			4	Number - number and place value	*Y4.NPV.2 find 1000 more or less than a given number
			4	Number - number and place value	*Y4.NPV.8 solve number and practical problems that involve all of the above and with increasingly large positive numbers



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12	Mental multiplication and division (MMD); Written multiplication and division (WMD); Written addition and subtraction (WAS); Measurement (MEA)	Use expanded written subtraction and compact written subtraction to subtract pairs of 3-digit numbers (one 'exchange'); use expanded column subtraction and compact column subtraction to subtract pairs of 3-digit and 2-digit numbers from 3-digit numbers (one 'carry'); learn the 7× table and 'tricky' facts; use the vertical algorithm to multiply 3-digit numbers by 1-digit numbers; solve simple money problems with decimals to two decimal places	4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Number- multiplication and division	**Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12 × 12
			4	Number- multiplication and division	*Y4.NMD.3 recognise and use factor pairs and commutativity in mental calculations
			4	Number- multiplication and division	**Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
			4	Measurement	**Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
			4	Number- multiplication and division	**Y4.NMD.5 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
13	Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Use mental multiplication and division strategies; find non-unit fractions of 2-digit and 3-digit numbers; find equivalent fractions and use them to simplify fractions (halves, thirds, quarters)	4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number-fractions	**Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
			4	Number-fractions	**Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions
			5	Number-fractions	↑*Y5.NF.1 compare and order fractions whose denominators are all multiples of the same number
			6	Number-fractions	↑*Y6.NF.1 use common factors to simplify fractions; use common multiples to express fractions in the same denomination
14	Geometry: properties of shape (GPS)	Recognise and compare acute, right and obtuse angles; draw lines of a given length; identify perpendicular and parallel lines; recognise and draw line symmetry in shapes; sort 2D shapes according to their properties; draw shapes with given properties and explain reasoning; draw the other half of symmetrical shapes	4	Geometry- properties of shapes	*Y4.GPS.2 identify acute and obtuse angles and compare and order angles up to two right angles by size
			3	Geometry- properties of shapes	↓**Y3.GPS.4 identify horizontal and vertical lines and pairs of perpendicular and parallel lines
			3	Measurement	↓**Y3.M.1 measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
			4	Geometry- properties of shapes	*Y4.GPS.3 identify lines of symmetry in 2-D shapes presented in different orientations
			4	Geometry- properties of shapes	*Y4.GPS.1 compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
			4	Geometry- properties of shapes	*Y4.GPS.4 complete a simple symmetric figure with respect to a specific line of symmetry.



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15	Mental multiplication and division (MMD); Written multiplication and division (WMD); Mental addition and subtraction (MAS)	Understand how to divide 2-digit and 3-digit numbers by 1-digit numbers using place-value and mental strategies; divide numbers by 1-digit numbers to give answers between 10 and 25, with remainders; identify factor pairs and use these to solve multiplications and divisions with larger numbers; use Frog to find complements to multiples of 1000; use Frog to find change from £10, £20 and £50	4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number- multiplication and division	**Y4.NMD.3 recognise and use factor pairs and commutativity in mental calculations
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Number - addition and subtraction	**Y4.NAS.2 estimate and use inverse operations to check answers to a calculation
			4	Measurement	**Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
16	Decimals, percentages and their equivalence to fractions (DPE); Number and place-value (NPV); Written addition and subtraction (WAS)	Recognise, use, compare and order decimal numbers; understand place-value in decimal numbers; recognise that decimals are tenths; round decimal numbers to the nearest whole number; divide 2-digit numbers by 10 to get decimal numbers; multiply decimal numbers by 10 to get 2-digit numbers; divide 3-digit multiples of ten by 100 to get decimal numbers; multiply decimal numbers by 100 to get 3-digit multiples of ten; add 4-digit numbers using written method with answers greater than 10,000	3	Number-fractions	↓**Y3.NF.1 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
			4	Number-fractions	*Y4.NF.8 round decimals with one decimal place to the nearest whole number
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Measurement	**Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
17	Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Decimals, percentages and their equivalence to fractions (DPE)	Add amounts of money using written methods and mentally using place-value and number facts; choose to add using the appropriate strategy: mental or written; subtract, choosing appropriate mental strategies: counting up or taking away (using counting back, place-value or number facts); solve subtractions using a suitable written method (column subtraction)	4	Measurement	**Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
			2	Number - addition and subtraction	↓**Y2.NAS.2 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate



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18	Measurement (MEA)	Tell the time on a 24-hour clock, using am and pm correctly; convert pm times to 24-hour clock and vice versa; use 24-hour clock in calculating intervals of time; measure and calculate perimeters of rectilinear shapes where each side is labelled in cm and m; find missing lengths in rectilinear composite shapes; find the perimeters of rectilinear shapes with some lengths not marked; convert from one unit of length to another; solve word problems involving lengths including those involving perimeters	4	Measurement	**Y4.M.5 read, write and convert time between analogue and digital 12- and 24-hour clocks
			4	Measurement	*Y4.M.2 measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
			5	Measurement	↑*Y5.M.2 understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
			5	Measurement	↑*Y5.M.1 convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
19	Number and place-value (NPV); Written addition and subtraction (WAS); Mental addition and subtraction (MAS)	Understand place value in 4-digit numbers; partition 4-digit numbers; solve subtraction of 4-digit numbers using column subtraction (decomposition); choose an appropriate method to solve subtractions, either mental or written, and either column or counting up (Frog)	4	Number - number and place value	**Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
			4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
20	Written multiplication and division (WMD)	Use the ladder method to multiply 3-digit numbers by 1-digit numbers; explore patterns; use mental strategies and tables facts to divide 2-digit and 3-digit numbers by 1-digit numbers to give answers between 10 and 35, without remainders; solve word problems	4	Number- multiplication and division	**Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
			4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number - addition and subtraction	**Y4.NAS.2 estimate and use inverse operations to check answers to a calculation
			4	Number - addition and subtraction	*Y4.NAS.3 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
			4	Number- multiplication and division	**Y4.NMD.5 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects



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21	Number and place-value (NPV)	Read, write and compare 4-digit numbers and place on a line; find 1000 more or less than any given number; read, write and compare 5-digit numbers; recognise what each digit represents in a 5-digit number; read, use and compare negative numbers	4	Number - number and place value	**Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
			4	Number - number and place value	**Y4.NPV.5 order and compare numbers beyond 1000
			5	Number - number and place value	↑*Y5.NPV.1 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
			4	Number - number and place value	*Y4.NPV.3 count backwards through zero to include negative numbers
			5	Number - number and place value	↑*Y5.NPV.3 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
22	Decimals, percentages and their equivalence to fractions (DPE)	Multiply and divide numbers by 10 and 100 including decimals (tenths and hundredths); read and write decimals (to 1 and 2 places), understanding that these represent parts (tenths and hundredths) of numbers; mark 1- and 2- place decimals on a line; count in tenths (0.1s) and hundredths (00.1s); multiply numbers with up to 2 decimal places by 10 and 100, and divide numbers by 10 and 100; say the number one tenth and one hundredth more or less than a given number; round decimal numbers to the nearest whole number	4	Number-fractions	*Y4.NF.9 compare numbers with the same number of decimal places up to two decimal places
			4	Number-fractions	*Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths
			4	Number-fractions	*Y4.NF.7 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredth
			4	Number-fractions	*Y4.NF.2 count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
			4	Number-fractions	**Y4.NF.8 round decimals with one decimal place to the nearest whole number



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23	Mental multiplication and division (MMD); Written multiplication and division (WMD); Number and place-value (NPV)	Learn 11 and 12x tables; develop and use effective mental multiplication strategies; use a vertical written method to multiply 3-digit numbers by 1-digit numbers; use rounding to estimate answers; use a written method to multiply 3-digit numbers, including amounts of money by 1-digit numbers; multiply 2-digit and 3-digit numbers by 1-digit numbers; understand how division 'undoes' multiplication and vice versa; divide above the tables facts using multiples of 10	4	Number- multiplication and division	**Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12 x 12
			4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number- multiplication and division	**Y4.NMD.5 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
			4	Number- multiplication and division	**Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
			4	Number - number and place value	**Y4.NPV.7 round any number to the nearest 10, 100 or 1000
			4	Number-fractions	*Y4.NF.10 solve simple measure and money problems involving fractions and decimals to two decimal places
24	Number and place-value (NPV); Geometry: properties of shapes (GPS); Measurement (MEA)	Recognise and write Roman numerals to 100; begin to know the history of our number system including 0; calculate area and perimeter of rectilinear shapes using multiplication and addition, or counting; recognise, name and classify 2D shapes identifying regular and irregular polygons; sort 2D shapes according to properties including types of quadrilaterals and triangles; revise 3D shapes, consider 2D-shaped sides on 3D shapes, and sort shapes	4	Number - number and place value	*Y4.NPV.9 read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value
			4	Measurement	*Y4.M.3 find the area of rectilinear shapes by counting squares
			5	Measurement	↑*Y5.M.4 calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes
			4	Measurement	**Y4.M.2 measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
4	Geometry- properties of shapes	**Y4.GPS.1 compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes			

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25	Decimals, percentages and their equivalence to fractions (DPE); Fractions, ratio and proportion (FRP)	Understand, read and write 2-place decimals; compare 2-place decimals in the context of lengths; add and subtract 0.1 and 0.01 and say a number one-tenth (0.1) or one-hundredth (0.01) more or less than a given number; revise equivalent fractions; write fractions with different denominators with a total of 1; recognise decimal and fraction equivalents	4	Number-fractions	**Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths
			4	Number-fractions	**Y4.NF.9 compare numbers with the same number of decimal places up to two decimal places
			4	Number-fractions	**Y4.NF.10 solve simple measure and money problems involving fractions and decimals to two decimal places
			4	Number-fractions	**Y4.NF.2 count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
			4	Number-fractions	**Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions
			5	Number-fractions	↑*Y5.NF.4 add and subtract fractions with the same denominator and denominators that are multiples of the same number
			4	Number-fractions	*Y4.NF.6 recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
			4	Measurement	**Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence
26	Mental addition and subtraction (MAS); Mental multiplication and division (MMD); Written multiplication and division (WMD)	Add two 2-digit numbers or a 2-digit number to a 3- or 4-digit number mentally; subtract 2-, 3- and 4-digit numbers using counting up; derive factors of 2-digit numbers and use factors and doubling to solve multiplication mentally; solve integer scaling problems using mental strategies and spot a relationship between products; solve correspondence problems, using a systematic approach and calculate using mental multiplication strategies	5	Number - addition and subtraction	↑**Y5.NAS.2 add and subtract numbers mentally with increasingly large numbers
			4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally,
			4	Number- multiplication and division	**Y4.NMD.3 recognise and use factor pairs and commutativity in mental calculations
			4	Number-fractions	**Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
			4	Number - number and place value	**Y4.NPV.8 solve number and practical problems that involve all of the above and with increasingly large positive numbers
			4	Number - addition and subtraction	**Y4.NAS.3 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
27	Written addition and subtraction (WAS); Mental addition and subtraction (MAS)	Solve written addition of two 4-digit numbers; add amounts of money (pounds and pence) using column addition; solve 4-digit minus 4-digit and 4-digit minus 3-digit subtractions using written column method (decomposition) and check subtraction with addition; solve word problems choosing an appropriate method	4	Number - addition and subtraction	**Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
			4	Number-fractions	**Y4.NF.10 solve simple measure and money problems involving fractions and decimals to two decimal places
			4	Number - addition and subtraction	**Y4.NAS.2 estimate and use inverse operations to check answers to a calculation
			4	Number - addition and subtraction	**Y4.NAS.3 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
28	Geometry:	Use coordinates to draw polygons;	4	Geometry - position	*Y4.GPD.1 describe positions on a 2-D grid as coordinates in the first quadrant



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	position and direction (GPD); Statistics (STA)	find the coordinates of shapes after translation; draw and interpret bar charts and pictograms; draw line graphs and understand that intermediate points have meaning		and direction	
			4	Geometry - position and direction	*Y4.GPD.3 plot specified points and draw sides to complete a given polygon
			4	Geometry - position and direction	*Y4.GPD.2 describe movements between positions as translations of a given unit to the left/right and up/down
			4	Statistics	**Y4.S.2 solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
			4	Statistics	**Y4.S.1 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
29	Written multiplication and division (WMD); Fractions, ratio and proportion (FRP); Decimals, percentages and their equivalence to fractions (DPE)	Use the vertical algorithm (ladder) to multiply 3-digit numbers by 1-digit numbers; find non-unit fraction of amounts, using 'chunking'; add fractions with like denominators, including totals greater than 1; divide by 10 and 100 (to give answers with 1 and 2 decimal places)	4	Number- multiplication and division	**Y4.NMD.4 multiply three-digit numbers by a one-digit number using formal written layout
			4	Number - number and place value	**Y4.NPV.7 round any number to the nearest 10, 100 or 1000
			4	Number-fractions	**Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
			4	Number-fractions	*Y4.NF.4 add and subtract fractions with the same denominator
			5	Number-fractions	↑*Y5.NF.3 recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]
			4	Number-fractions	**Y4.NF.7 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredth
30	Written multiplication and division (WMD); Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Multiply 2-digit numbers by 11 and 12; look for patterns and write rules; multiply 2-digit numbers by numbers between 10 and 20 using the grid method; begin to use the grid method to multiply pairs of 2-digit numbers; use mental strategies and tables facts to divide 2-digit and 3-digit numbers by 1-digit numbers to give answers between 20 and 50, with and without remainders; find non-unit fractions of amounts	5	Number- multiplication and division	↑*Y5.NMD.4 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
			4	Number- multiplication and division	**Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
			4	Number - addition and subtraction	**Y4.NAS.2 estimate and use inverse operations to check answers to a calculation
			4	Number-fractions	**Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions