

National Curriculum for England 2014

Which National Curriculum attainment targets are covered in each Abacus week?



Key: * first time attainment target is covered ** consolidation ↓ NC objective in a year below ↑ NC objective in a year above '(S)' covered in starter activities

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)	Use multiple of 5 and 10 bonds to 100 to solve additions and subtractions; add and subtract 1-digit numbers to and from 2-digit numbers	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
			3	Number - addition and subtraction	*Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			2	Number-multiplication and division	↓**Y2.NMD.2 Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
2	Number and place value (NPV); Mental addition and subtraction (MAS)	Understand place value in 2- and 3-digit numbers; Compare and order 2- and 3-digit numbers using > and < signs; solve problems using place value; add and subtract multiples of 10 and near multiples of 10 to and from 2-digit numbers; add and subtract two 2-digit numbers using number facts; count on and back in 10s and 1s; add and subtract 2-digit numbers	3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			3	Number - number and place value	*Y3.NPV.3 Compare and order numbers up to 1000
			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 - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
3	Mental multiplication and division (MMD)	Know multiplication and division facts for the 5, 10, 2, 4 and 3x tables; doubling and halving	2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
			3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			3	Number-multiplication and division	*Y3.NMD.3 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
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			2	Number-multiplication and division	↓**Y2.NMD.2 Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs (S)
4	Measurement (MEA); Geometry: properties of shapes (GPS)	Know and understand the calendar, including days, weeks, months, years; tell the time to the nearest 5 minutes on analogue and digital clocks; know the properties of 3D shapes	3	Measurement	**Y3.M.6 Know the number of seconds in a minute and the number of days in each month, year and leap year
			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.4 Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks

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			3	Geometry- properties of shapes	**Y3.GPS.1 Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
			2	Number - addition and subtraction	↓**Y2.NAS.4 Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
			3	Measurement	*Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight (S)
5	Number and place value (NPV); Mental addition and subtraction (MAS)	Compare, order and understand place value of 2- and 3-digit numbers; subtract from 2- and 3-digit numbers; using prediction to estimate calculations	3	Number - number and place value	*Y3.NPV.4 Identify, represent and estimate numbers using different representations
			3	Number - number and place value	**Y3.NPV.3 Compare and order numbers up to 1000
			4	Number - number and place value	↑*Y4.NPV.7 Round any number to the nearest 10, 100 and 1000
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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 - number and place value	↓**Y2.NPV.4 Compare and order numbers from 0 up to 100; use <, > and = signs (S)
			3	Number-	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8

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				multiplication and division	multiplication tables
			4	Number-multiplication and division	↑*Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 × 12 (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods (S)
6	Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Double and halve numbers up to 100 using partitioning; understand fractions and fractions of numbers	3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			3	Number-multiplication and division	**Y3.NMD.3 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.
			3	Number-fractions	**Y3.NF.3 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
			3	Number-fractions	**Y3.NF.6 Compare and order unit fractions, and fractions with the same denominators
			3	Number-fractions	**Y3.NF.2 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
			2	Number-fractions	↓**Y2.NF.1 Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity (S)
			2	Number - number and place value	↓**Y2.NPV.2 Recognise the place value of each digit in a two-digit number (tens, ones) (S)
			2	Number - number and place value	↓**Y2.NPV.3 Identify, represent and estimate numbers using different representations, including the number line (S)
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
7	Mental addition and	Use money to add, subtract and	3	Measurement	**Y3.M.3 Add and subtract amounts of money to give change, using both £ and p in

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	subtraction (MAS); Measurement (MEA)	record using the correct notation and place value; add and subtract 2-digit numbers using partitioning; add three 2-digit numbers by partitioning and recombining			practical contexts
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Number-fractions	**Y3.NF.3 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
8	Measurement (MEA)	Choose an appropriate instrument to measure a length and use a ruler to estimate, measure and draw to the nearest centimetre; know 1 litre = 1000 ml; estimate and measure capacity in millilitres	3	Measurement	**Y3.M.1 Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
			4	Measurement	↑**Y4.M.1 Convert between different units of measure [for example, kilometre to metre; hour to minute] (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 x 12 (S)
			3	Number-fractions	**Y3.NF.3 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (S)
9	Number and place	Place 2- and 3-digit numbers on a	3	Number - number and	**Y3.NPV.4 Identify, represent and estimate numbers using different representations

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	value (NPV); Mental addition and subtraction (MAS)	number line; round 3-digit numbers to nearest 100; use counting up to do mental subtractions with answers between 10 and 20, 10 and 30, and either side of 100		place value	
			3	Number - number and place value	**Y3.NPV.3 Compare and order numbers up to 1000
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
10	Mental addition and subtraction (MAS); Mental multiplication and division (MMD)	Revise times-tables learned and derive division facts; perform division with remainders; choose a mental strategy to solve additions and subtractions; solve word problems	3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
			3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			3	Number-multiplication and division	**Y3.NMD.3 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
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 × 12 (S)
			4	Number - number and place value	↑**Y4.NPV.7 Round any number to the nearest 10, 100 and 1000

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			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
11	Number and place value (NPV)	Rehearse place value in 3-digit numbers, order them on a number line and find a number in between; compare number sentences; solve additions and subtractions using place value; multiply and divide by 10 (whole number answers); count in steps of 10, 50 and 100	3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations
			3	Number - number and place value	**Y3.NPV.3 Compare and order numbers up to 1000
			3	Number - number and place value	*Y3.NPV.6 Solve number problems and practical problems involving these ideas
			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
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including; a three-digit number and tens and a three-digit number and hundreds
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
			2	Number - number and place value	↓**Y2.NPV.2 Recognise the place value of each digit in a two-digit number (tens, ones) (S)
			2	Number - number and place value	↓**Y2.NPV.3 Identify, represent and estimate numbers using different representations, including the number line (S)
			2	Number - number and place value	↓**Y2.NPV.4 Compare and order numbers from 0 up to 100; use <, > and = signs (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

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					<ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
12	Mental addition and subtraction (MAS); Mental multiplication and division (MMD)	Add pairs of 2-digit numbers using partitioning (crossing 10s, 100 or both) and then extend to add two 3-digit numbers (not crossing 1000); recognise and sort multiples of 2, 3, 4, 5, and 10; double the 4 times table to find the 8 times table; derive division facts for the 8 times table; multiply and divide by 4 by doubling or halving twice	3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
			3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			3	Geometry- properties of shapes	**Y3.GPS.4 Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 × 12 (S)
			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 (S)
			3	Number-fractions	**Y3.NF.3 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (S)
			3	Number-fractions	**Y3.NF.6 Compare and order unit fractions, and fractions with the same denominators (S)
			2	Number-fractions	↓**Y2.NF.2 Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ (S)

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			3	Number-fractions	*Y3.NF.4 Recognise and show, using diagrams, equivalent fractions with small denominators (S)
13	Fractions, ratio and proportion (FRP)	Identify $\frac{1}{2}$ s, $\frac{1}{3}$ s, $\frac{1}{4}$ s, $\frac{1}{6}$ s, and $\frac{1}{8}$ s; realise how many of each make a whole; find equivalent fractions; place fractions on a 0 to 1 line; find fractions of amounts	3	Number-fractions	*Y3.NF.1 Count up & 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
			3	Number-fractions	**Y3.NF.2 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
			3	Number-fractions	**Y3.NF.3 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
			3	Number-fractions	**Y3.NF.4 Recognise and show, using diagrams, equivalent fractions with small denominators
			3	Number-fractions	*Y3.NF.5 Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]
			3	Number-fractions	**Y3.NF.6 Compare and order unit fractions, and fractions with the same denominators
			3	Number-fractions	*Y3.NF.7 Solve problems that involve all of the above
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12×12 (S)
3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (S)			
3	Number-multiplication and division	**Y3.NMD.3 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 (S)			
14	Geometry: properties of	Recognise right angles and know they are 90° ; understand angles	3	Geometry- properties of shapes	*Y3.GPS.2 Recognise angles as a property of shape or a description of a turn

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	shapes (GPS) ; Geometry: position and direction (GPD) ; Measurement (MEA)	are measured in degrees; recognise $^{\circ}$ as the symbol for the measurement of degrees; name and list simple properties of 2D shapes; begin to understand and use the term perimeter to mean the length/distance around the edge (border) of a 2D shape; begin to calculate using a ruler; know a right angle is a quarter turn; know 360° is a full turn; begin to understand angles and identify size of angles in relation to 90°	3	Geometry- properties of shapes	*Y3.GPS.3 Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
			3	Geometry- properties of shapes	**Y3.GPS.1 Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
			3	Measurement	*Y3.M.2 Measure the perimeter of simple 2-D shapes
			2	Measurement	↓**Y2.M.2 Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ (S)
			4	Measurement	↑**Y4.M.1 Convert between different units of measure [for example, kilometre to metre; hour to minute] (S)
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight (S)
			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 (S)
			4	Number - addition and subtraction	↑*Y4.NAS.2 Estimate and use inverse operations to check answers to a calculation (S)
			2	Geometry- properties of shapes	↓**Y2.GPS.4 Compare and sort common 2-D and 3-D shapes and everyday objects (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)			
15	Number and place value (NPV) ; Mental addition and subtraction (MAS)	Place 3-digit numbers on empty 100 number lines; begin to place 3-digit numbers on 0-1000 landmarked and empty number lines; round 3-digit numbers to the nearest ten and to the nearest hundred; use counting up as a strategy to perform mental subtraction (Frog); subtract pounds and pence from five	3	Number - number and place value	**Y3.NPV.4 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 and 1000
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			3	Measurement	**Y3.M.3 Add and subtract amounts of money to give change, using both \pounds and p in practical contexts
			2	Geometry- properties of shapes	↓**Y2.GPS.4 Compare and sort common 2-D and 3-D shapes and everyday objects (S)

National Curriculum for England 2014
Which National Curriculum attainment targets are covered in each Abacus week?



Key: * first time attainment target is covered ** consolidation ↓ NC objective in a year below ↑Nc objective in a year above '(S)' covered in starter activities

Abacus			National Curriculum in England		
Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
		pounds; use counting up (Frog) as a strategy to perform mental subtraction of amounts of money; subtract pounds and pence from ten pounds	2	Geometry- properties of shapes	↓**Y2.GPS.2 Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces (S)
			3	Geometry- properties of shapes	**Y3.GPS.1 Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			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 (S)
16	Number and place value (NPV); Written addition and subtraction (WAS)	Understand place-value in 3-digit numbers; separate 3-digit numbers into hundreds, tens, and ones; add two 3-digit numbers using vertical written addition (expanded); add 2- and 3- digit numbers using vertical written addition (expanded)	3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Solve number problems and practical problems involving these ideas (from Number and Place value Strand)
			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
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Number - addition and subtraction	↓**Y2.NAS.4 Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			3	Number- multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (S)

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
			4	Number - number and place value	↑*Y4.NPV.1 Count in multiples of 6, 7, 9, 25 and 1000 (S)
17	Mental addition and subtraction (MAS); Written addition and subtraction (WAS)	Add two 2-digit numbers mentally; add 2-digit to 3-digit numbers mentally using place value and rounding; add two 3-digit numbers using expanded written method (answers under 1000); begin to move tens and hundreds moving towards formal written addition; add two 3-digit numbers using expanded column addition; investigate patterns in numbers when adding them; choose to solve addition using a mental method or expanded column addition (written method)	3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			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
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in tens from any number, forward and backward (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			4	Number - number and place value	↑**Y4.NPV.1 Count in multiples of 6, 7, 9, 25 and 1000 (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
18	Measurement (MEA)	Tell the time to the nearest minute on analogue and digital clocks (minutes past and minutes to); time events in minutes and seconds; find a time after a given interval (not crossing the hour); calculate time intervals; solve word problems involving time	3	Measurement	**Y3.M.4 Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
			3	Measurement	**Y3.M.6 Know the number of seconds in a minute and the number of days in each month, year and leap year
			3	Measurement	**Y3.M.7 Compare durations of events [for example to calculate the time taken by particular events or tasks]
			4	Measurement	↑*Y4.M.5 Read, write and convert time between analogue and digital 12- and 24-hour clocks (S)
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			3	Number - addition	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
19	Mental addition and subtraction (MAS); Number and place value (NPV)	Order 3-digit numbers and find numbers between; solve subtractions of 3-digit – 3-digit numbers using counting up (Frog); use counting up and counting back as strategies to perform mental subtractions; choose to solve a given subtraction by counting up or counting back		and subtraction	ones; a three-digit number and tens and a three-digit number and hundreds (S)
			3	Number - number and place value	**Y3.NPV.3 Compare and order numbers up to 1000
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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 - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 x 12 (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)			
20	Mental multiplication and division (MMD); Number and place value (NPV)	Double and halve numbers up to 100 by partitioning; solve word problems involving doubling and halving; multiply numbers between 10 and 25 by 1-digit numbers using the grid method; divide multiples of 10 by 1-digit numbers using known tables facts; see the relation between multiplication and division	3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			3	Number-multiplication and division	**Y3.NMD.3 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
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 x 12 (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			4	Number - number and	↑**Y4.NPV.1 Count in multiples of 6, 7, 9, 25 and 1000 (S)

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Which National Curriculum attainment targets are covered in each Abacus week?



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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
				place value	
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
21	Mental addition and subtraction (MAS); Fractions, ratio and proportion (FRP)	Add 3-digit and 1-digit numbers mentally, using number facts; subtract 1-digit numbers from 3-digit numbers mentally using number facts; add and subtract multiples of 10 by counting on and back in 10s and using number facts to cross 100s; compare and order fractions with the same denominator; begin to recognise equivalences of 1/2; add and subtract fractions with the same denominator	3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Number-fractions	**Y3.NF.6 Compare and order unit fractions, and fractions with the same denominators
			3	Number-fractions	**Y3.NF.4 Recognise and show, using diagrams, equivalent fractions with small denominators
			3	Number-fractions	**Y3.NF.5 Add and subtract fractions with the same denominator within one whole [for example, $5/7 + 1/7 = 6/7$]
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12×12 (S)			
3	Number-multiplication and	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-			

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
				division	digit numbers, using mental and progressing to formal written methods (S)
			4	Number - addition and subtraction	↑**Y4.NAS.2 Estimate and use inverse operations to check answers to a calculation (S)
			3	Number-multiplication and division	**Y3.NMD.3 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 (S)
			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 (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
22	Written multiplication and division (WMD); Mental multiplication and division (MMD)	Use function machines to multiply by 2, 3, 4, 5 and 8 and understand the inverse; use scaling to multiply heights and weights by 2, 4, 8, 5 and 10; use known facts to multiply multiples of 10 by 2, 3, 4 and 5; multiply numbers between 10 and 30 by 3, 4 and 5 using the grid method; multiply 2-digit numbers by 3, 4, 5 and 8 using the grid method	3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
			3	Number-multiplication and division	**Y3.NMD.3 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
			3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 × 12 (S)
			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 (S)
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
					<ul style="list-style-type: none"> a two-digit number and tens two two-digit numbers adding three one-digit numbers (S)
23	Mental multiplication and division (MMD); Written multiplication and division (WMD)	Divide without remainders, just beyond the 12 th multiple; division using chunking, with remainders; use the grid method to multiply 2-digit numbers by 3, 4, 5 and 8; begin to estimate products	3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			3	Number-multiplication and division	**Y3.NMD.3 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
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 × 12 (S)
			4	Number - addition and subtraction	↑**Y4.NAS.2 Estimate and use inverse operations to check answers to a calculation (S)
			3	Measurement	**Y3.M.4 Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (S)
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight (S)
			4	Measurement	↑**Y4.M.5 Read, write and convert time between analogue and digital 12- and 24-hour clocks (S)
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 (S)			
24	Statistics (STA); Measurement (MEA)	Draw and interpret block graphs and pictograms where one square/symbol represents two units; compare and measure weights in multiples of 100g; know how many grams are in a	3	Statistics	*Y3.S.1 Interpret and present data using bar charts, pictograms and tables
			3	Statistics	*Y3.S.2 Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables
			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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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
		kilogram; estimate and weigh objects to the nearest 100g; draw and interpret bar charts where one square represents one hundred units	2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight (S)
			3	Measurement	**Y3.M.7 Compare durations of events [for example to calculate the time taken by particular events or tasks] (S)
			2	Measurement	↓**Y2.M.3 Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value (S)
			2	Measurement	↓**Y2.M.4 Find different combinations of coins that equal the same amounts of money (S)
25	Mental addition and subtraction (MAS); Written addition and subtraction (WAS)	Add 3-digit and 2-digit numbers using mental strategies; add two 3-digit numbers using mental strategies or by using column addition; use reasoning and trial and improvement to solve problems involving more complex addition	3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Number - addition and subtraction	*Y3.NAS.3 Estimate the answer to a calculation and use inverse operations to check answers
			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	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)
			3	Number - number and place value	**Y3.NPV.3 Compare and order numbers up to 1000 (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
			4	Number - number and place value	↑**Y4.NPV.7 Round any number to the nearest 10, 100 and 1000 (S)
			4	Measurement	↑*Y4.M.6 Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (S)
26	Written addition and	Use column addition to add three	3	Number - addition	**Y3.NAS.2 Add and subtract numbers with up to three digits, using formal written

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Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
	subtraction (WAS) ; Mental addition and subtraction (MAS)	2- and 3-digit numbers together and four 2- and 3-digit numbers together; subtract 3-digit numbers using counting up; solve word problems choosing an appropriate method		and subtraction	methods of columnar addition and subtraction
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			3	Number - addition and subtraction	**Y3.NAS.3 Estimate the answer to a calculation and use inverse operations to check answers
			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 - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
27	Written addition and subtraction (WAS) ; Mental addition and subtraction (MAS) ; Measurement (MEA)	Add 3-digit numbers using column addition; solve problems involving measures; solve subtractions of 3-digit numbers using counting up on a line and work systematically to find possibilities; choose an appropriate strategy to solve addition or subtraction	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
			3	Measurement	**Y3.M.1 Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			4	Measurement	↑**Y4.M.1 Convert between different units of measure [for example, kilometre to metre; hour to minute] (S)
			2	Number - addition and subtraction	↓**Y2.NAS.3 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers (S)
			3	Number - number and place value	**Y3.NPV.2 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (S)
			3	Number - number and place value	**Y3.NPV.4 Identify, represent and estimate numbers using different representations (S)
28	Measurement (MEA) ; Geometry: properties of shapes (GPS)	Identify, name and draw horizontal, vertical, perpendicular, parallel and diagonal lines, angles and symmetry in 2D shapes; measure the perimeter of 2D	3	Geometry- properties of shapes	**Y3.GPS.4 Identify horizontal and vertical lines and pairs of perpendicular and parallel lines
			3	Geometry- properties of shapes	**Y3.GPS.2 Recognise angles as a property of shape or a description of a turn
			3	Measurement	**Y3.M.2 Measure the perimeter of simple 2-D shapes

National Curriculum for England 2014
Which National Curriculum attainment targets are covered in each Abacus week?



Key: * first time attainment target is covered ** consolidation ↓ NC objective in a year below ↑NC objective in a year above '(S)' covered in starter activities

Abacus			National Curriculum in England			
Wk	Strands	Weekly Summary	Yr	Domain	Attainment target	
		shapes by counting and measuring with a ruler; tell the time on analogue and digital clocks to the minute, begin to tell the time 5, 10, 20 minutes later, recognise am and pm and 24-hour clock times	3	Measurement	**Y3.M.4 Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	
			3	Measurement	**Y3.M.5 Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	
			3	Measurement	**Y3.M.7 Compare durations of events [for example to calculate the time taken by particular events or tasks]	
			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 (S)	
			3	Number - number and place value	**Y3.NPV.1 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number (S)	
			2	Measurement	↓**Y2.M.7 Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times (S)	
			3	Measurement	**Y3.M.6 Know the number of seconds in a minute and the number of days in each month, year and leap year (S)	
			2	Measurement	↓**Y2.M.8 Know the number of minutes in an hour and the number of hours in a day (S)	
29	Written multiplication and division (WMD); Fractions, ratio and proportion (FRP); Decimals, percentages and their equivalence to fractions (DPE)	Use the grid method to multiply 2-digit numbers by 3, 4, 5, 6 and 8; estimate products; divide using chunking, with and without remainders; decide whether to use multiplication or division to solve word problems; recognise tenths and equivalent fractions; find one-tenth and several tenths of multiples of 10 and begin to find one-tenth of single-digit numbers	3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	
				3	Number-multiplication and division	**Y3.NMD.3 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
				3	Number-fractions	**Y3.NF.4 Recognise and show, using diagrams, equivalent fractions with small denominators
				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
				2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
				2	Number - number and place value	↓**Y2.NPV.1 Count in tens from any number, forward and backward (S)
				3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
				4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 x 12 (S)
		4	Number-	↑**Y4.NMD.2 Use place value, known and derived facts to multiply and divide mentally,		

National Curriculum for England 2014
Which National Curriculum attainment targets are covered in each Abacus week?



Key: * first time attainment target is covered ** consolidation ↓ NC objective in a year below ↑NC objective in a year above '(S)' covered in starter activities

Abacus			National Curriculum in England		
Wk	Strands	Weekly Summary	Yr	Domain	Attainment target
				multiplication and division	including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers (S)
			3	Number-fractions	**Y3.NF.2 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (S)
			3	Number-fractions	**Y3.NF.6 Compare and order unit fractions, and fractions with the same denominators (S)
30	Written addition and subtraction (WAS); Mental addition and subtraction (MAS); Written multiplication and division (WMD)	Revise column addition for adding three 3-digit numbers; revise mental strategies for addition; subtract 3-digit numbers using written and mental methods; find change using counting up; check subtraction using addition; multiply numbers between 10 and 40 by 1-digit numbers using grid method; solve division problems just beyond the known tables facts	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
			3	Number - addition and subtraction	**Y3.NAS.1 Add and subtract numbers mentally, including a three-digit number and ones; a three-digit number and tens and a three-digit number and hundreds
			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
			3	Measurement	**Y3.M.3 Add and subtract amounts of money to give change, using both £ and p in practical contexts
			3	Number-multiplication and division	**Y3.NMD.2 Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			2	Number - addition and subtraction	↓**Y2.NAS.1 Solve problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods (S)
			2	Measurement	↓**Y2.M.5 Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (S)
			2	Number-multiplication and division	↓**Y2.NMD.1 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (S)
			2	Number - number and place value	↓**Y2.NPV.1 Count in in tens from any number, forward and backward (S)
			3	Number-multiplication and division	**Y3.NMD.1 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (S)
			4	Number-multiplication and division	↑**Y4.NMD.1 Recall multiplication and division facts for multiplication tables up to 12 x 12 (S)