

Maths - Year 3 – Skills map

Number and Place Value

M1	I can count from 0 in multiples of 4, 8, 50 and 100.
M2	I can calculate 10 or 100 more or less than a given number.
M3	I can recognise the place value of each digit in a three-digit number (hundreds, tens, ones).
M4	I can compare and order numbers up to 1000.
M5	I can identify , represent (using different representations) and estimate numbers.
M6	I can read and write numbers up to 1000 in numerals and in words.
M7	I can solve number problems and practical problems involving the above ideas.

Multiplication and division

M18	I can understand and recall the 3-times table.
M19	I can recall and use the 4-times table.
M20	I can recall and use the 8-times table.
M21	I am able to understand the relationship between multiplication and division and that it is commutative .
M22	I can write and calculate mathematical statements for multiplication and division using multiplication tables.
M23	I can solve problems, including missing number problems, involving multiplication and division.

Addition and subtraction

M8	I can add and subtract three digit numbers to and from ones mentally.
M9	I can add and subtract three digit numbers to and from multiples of 10 mentally.
M65	I can add and subtract three digit numbers to and from multiples of 100 mentally.
M10	I can add 3 digit numbers to one digit numbers , using formal written method of column addition .
M11	I can add 3 digit numbers to multiples of 10 , using formal written method of column addition .
M12	I can add 3 digit numbers to multiples of 100 , using formal written method of column addition .
M13	I can subtract one digit numbers from three digit numbers, using formal written method of column subtraction .
M14	I can subtract multiples of 10 from 3 digit numbers, using formal written method of column subtraction .
M15	I can subtract multiples of 100 from 3 digit numbers, using formal written method of column subtraction .
M16	I can estimate the answer to a calculation and use inverse operations to check answers.
M17	I can solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction.

Fractions, decimals and percentages

M51	I can recognise that tenths come from dividing an object into 10 equal parts.
M52	I can count up and down in tenths.
M53	I can recognise unit fractions and non-unit fractions with small denominators.
M54	I can recognise and write fractions as a set of objects.
M55	I can recognise and show (using diagrams) equivalent fractions with small denominators.
M56	I can add and subtract fractions with the same denominator within one whole (for example, $5/7 + 1/7 = 6/7$).
M57	I can compare and order unit fractions with the same denominator.
M58	I can solve problems that involve all of the above.

Statistics

M45	I can interpret and present data using bar charts .
M46	I can solve one-step and two-step questions using information presented in scaled bar charts .
M47	I can interpret and present data using pictograms .
M48	I can solve one-step and two-step questions using information presented in pictograms .
M49	I can interpret and present data using tables .
M50	I can solve one-step and two-step questions using information presented in tables .

Maths - Year 3 – Skills map

Measurement - Time

M36	I can <u>read</u> and <u>write</u> the time from a 12 hour analogue clock .	
M37	I can <u>read</u> and <u>write</u> the time from an analogue clock, writing it in 24 hour time .	
M38	I can <u>read</u> and <u>write</u> the time from an analogue clock with Roman numerals from I to XII making out the numbers.	
M39	I can <u>estimate</u> and <u>read</u> time with increasing accuracy to the nearest minute.	
M40	I can <u>record</u> and <u>compare</u> time in seconds, minutes and hours .	
M41	I can <u>understand</u> how many seconds in a minute .	
M42	I can <u>understand</u> how many days in a month .	
M43	I can <u>understand</u> how many days in a year and leap year .	
M44	I can <u>compare</u> durations of events (for example to calculate the time taken by particular events or tasks).	

Geometry – properties of shape

Angles

M59	I can <u>recognise</u> angles as a property of shape or a description of a turn.	
M60	I can <u>identify</u> right angles , recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn.	
M61	I can <u>identify</u> whether angles are greater than or less than a right angle .	

Lines and shapes

M62	I can <u>identify</u> horizontal and vertical lines and pairs of perpendicular and parallel lines .	
M63	I can <u>draw</u> 2-D shapes and make 3-D shapes using modelling materials.	
M64	I can <u>recognise</u> 3D shapes in different orientations and describe them.	

Addition and subtraction

M24	I can <u>measure</u> lengths in meters (m) centimetres (cm) and millimetres (mm) .	
M25	I can <u>compare</u> lengths written in meters (m) centimetres (cm) and millimetres (mm) .	
M26	I can <u>add</u> and <u>subtract</u> lengths written in meters (m) centimetres (cm) and millimetres (mm) .	

Perimeter of figures

M27	I can <u>measure</u> and <u>calculate</u> the perimeter of a simple 2D shape in centimetres and meters .	
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Mass

M28	I can <u>measure</u> the mass of objects by reading weighing scales in grams (g) and kilograms (kg) .	
M29	I can <u>compare</u> the mass of objects in grams (g) and kilograms (kg) .	
M30	I can <u>add</u> and <u>subtract</u> the mass of objects written in grams (g) and kilograms (kg) .	

Volume

M31	I can <u>measure</u> the volume and capacity of objects in litres (l) and millilitres (ml) .	
M32	I can <u>compare</u> the volume and capacity of objects in litres (l) and millilitres (ml) .	
M33	I can <u>add</u> and <u>subtract</u> the volume and capacity of objects in litres (l) and millilitres (ml) .	

Money

M34	I can <u>add</u> and <u>subtract</u> amounts of money in both pounds (£) and pennies (p) .	
M35	I can use addition and subtraction skills to <u>calculate change</u> in both pounds (£) and pennies (p) .	

Maths - Year 4 – Skills map

Number and Place Value

M1	I can <u>count</u> in multiples 25 and 100.	
M2	I can <u>count</u> in multiples of 1000.	
M3	I can <u>count</u> in multiples of 6, 7 and 9.	
M4	I can <u>calculate</u> 1000 more or less than a given number.	
M5	I can <u>count</u> backwards through zero to include negative numbers .	
M6	I can <u>recognise</u> the place value of each digit in a four-digit number.	
M7	I can <u>order</u> and <u>compare</u> numbers beyond 1000.	
M8	I can <u>identify</u> how to round any number to the nearest 10.	
M9	I can <u>identify</u> how to round any number to the nearest 100.	
M10	I can <u>identify</u> how to round any number to the nearest 1000.	
M11	I can <u>solve</u> number and practical problems with increasingly large positive numbers.	

Roman Numerals

M12	I can <u>read</u> Roman Numerals to 100.	
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Addition and subtraction

M13	I can <u>add</u> and <u>subtract</u> numbers with up to 4 digits using the formal written methods.	
M14	I can <u>estimate</u> and use inverse operations to check answers to a calculation.	
M15	I can <u>solve</u> addition and subtraction two-step problems in contexts.	

Multiplication and division

M16	I can <u>recall</u> multiplication and division facts for multiplication tables up to 12 x 12.	
M17	I can use place value and known and derived facts to <u>multiply</u> and <u>divide</u> mentally.	
M18	I can mentally <u>multiply</u> and <u>divide</u> by 0 and 1.	
M19	I can mentally <u>multiply</u> 3 numbers together.	
M20	I can <u>recognise</u> and use factor pairs and commutativity in mental calculations.	
M21	I can <u>multiply</u> two-digit numbers by a one-digit number using the formal written methods.	
M22	I can <u>multiply</u> three-digit numbers by a one-digit number using the formal written methods.	
M23	I can <u>solve</u> problems involving multiplying and dividing , including using the distributive law .	
M24	I can <u>solve</u> problems involving integer scaling . For example if one apple cost £1.20 how much does 6 apples cost?	
M25	I can <u>solve</u> harder problems such as n objects are connected to m objects. For example: a packet of balls contains 2 footballs and 3 rugby balls. Hr Harrison bought some new balls, when he opened the bag, there were 16 footballs. How many footballs were there?	

Fractions

M26	I can <u>recognise</u> and <u>show</u> , using diagrams, families of common equivalent fractions .	
M27	I can <u>recognise</u> that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	
M28	I can <u>count</u> up and down in hundredths.	
M29	I can <u>solve</u> problems which involve increasingly harder fractions to calculate quantities.	
M30	I can to use fractions to <u>divide</u> quantities, including non-unit fractions where the answer is a whole number.	
M31	I can <u>add</u> and <u>subtract</u> fractions with the same denominator .	
Decimals		
M32	I can <u>recognise</u> and <u>write</u> decimal equivalents of any number of tenths or hundredths.	
M33	I can <u>recognise</u> and <u>write</u> decimal equivalents to quarters, a half and thirds .	
M34	I can find the effect of <u>dividing</u> a one or two-digit numbers by 10 and 100, identify the value of digits in the answer as ones, tenths and hundredths .	
M35	I can <u>round</u> decimals with one decimal place to the nearest whole number.	
M36	I can <u>compare</u> numbers with the same number of decimal places up to 2 decimal places.	
M37	I can <u>solve</u> simple measure and money problems involving fractions and decimals to 2 decimal places.	

Maths - Year 4 – Skills map

Geometry		
Properties of shape		
M38	I can <u>identify</u> acute and obtuse angles.	
M39	I can <u>compare</u> and <u>order</u> angles, by size, up to 180°.	
M40	I can <u>compare</u> and <u>classify</u> triangles , based on their properties and sizes.	
M41	I can <u>construct</u> and <u>classify</u> quadrilaterals based on their properties and size.	
M42	I can <u>identify</u> the lines of symmetry in 2-D shapes presented in different orientations.	
M43	I can <u>construct</u> a simple symmetric figure with respect to a specific line of symmetry.	
Position and movement		
M44	I can <u>describe</u> positions of a 2-D shape as co-ordinates in the first quadrant .	
M45	I can <u>describe</u> movements between positions as translations of a given unit to the left or right and up or down.	
M46	I can <u>plot</u> specific points and <u>draw</u> sides to complete a given polygon .	

Measurement		
M52	I can <u>convert</u> between different units of measure, for example, km to m.	
M53	I can <u>measure</u> and calculate the perimeter of a rectilinear figure in cm and m.	
M54	I can <u>calculate</u> the area of rectilinear shapes by counting squares.	
Money		
M55	I can <u>estimate</u> and <u>calculate</u> different measures, including money in pounds and pence.	
M56	I can <u>compare</u> different measures, including money in pounds and pence.	
Time		
M57	I can <u>read</u> and <u>write</u> time as analogue and digital 12-hour clocks.	
M58	I can <u>read</u> and <u>write</u> time as analogue and digital 24-hour clocks.	
M59	I can <u>solve</u> problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days.	

Statistics		
M47	I can <u>interpret</u> data using appropriate graphical methods, including bar charts and time graphs .	
M48	I can <u>present</u> data using appropriate graphical methods, including bar charts and time graphs.	
M49	I can <u>solve</u> comparison, problems using information presented in a bar charts, pictograms, tables and other graphs.	
M50	I can <u>solve</u> sum , problems using information presented in a bar charts, pictograms, tables and other graphs.	
M51	I can <u>solve</u> difference , problems using information presented in a bar charts, pictograms, tables and other graphs.	

Maths - Year 5 – Skills map

Number and Place Value		
M1	I can <u>read and write</u> numbers to at least 1,000,000 .	
M2	I can <u>identify</u> the value of each digit in numbers up to 1,000,000.	
M3	I can <u>order and compare</u> numbers to at least 1,000,000.	
M4	I can <u>count forwards or backwards</u> in steps of powers of 10 for any given number up to 1,000,000.	
M5	I can <u>count forwards and backwards</u> with positive and negative whole numbers , including through zero.	
M6	I can <u>interpret</u> negative numbers in context.	
M7	I can <u>identify</u> how to round any number up to 1 million to the nearest 10 .	
M8	I can <u>identify</u> how to round any number up to 1 million to the nearest 100 .	
M9	I can <u>identify</u> how to round any number up to 1 million to the nearest 1000 .	
M10	I can <u>identify</u> how to round any number up to 1 million to the nearest 10,000 .	
M11	I can <u>identify</u> how to round any number up to 1 million to the nearest 100,000 .	
M12	I can <u>solve</u> number problems and practical problems that involve all of above.	
M13	I can <u>read</u> Roman Numerals to 1000.	
M14	I can <u>recognise</u> years written in Roman Numerals.	

Addition and subtraction		
M15	I can <u>add</u> whole numbers with more than 4 digits, using a formal written method.	
M16	I can <u>subtract</u> whole numbers with more than 4 digits, using a formal written method.	
M17	I can <u>add and subtract</u> numbers mentally with increasingly large numbers.	
M18	I can use <u>rounding</u> to check answers to calculations and determine levels of accuracy.	
M19	I can <u>solve</u> addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	

Measurement		
M35	I can <u>convert</u> between different units of metric measure . (For example: kilometres and metres; centimetres and metres; grams and kilograms; litres and millilitres)	
M36	I can <u>understand and use</u> approximate equivalences between metric units and common imperial units such as inches, ponds and pints.	
M37	I can <u>measure and calculate</u> the perimeter of composite rectilinear shapes in cm and metres.	
M38	I can <u>calculate and compare</u> the area of rectangles and use standard units including square cm (cm²) and square metres (m²) .	
M39	I can <u>estimate</u> the area of irregular shapes .	
M40	I can <u>estimate</u> volume , for example, using 1cm ³ blocks to build cuboids.	
M41	I can <u>estimate</u> capacity , for example, using water.	
M42	I can <u>solve</u> problems involving converting between units of time .	
M43	I can use all four operations to <u>solve</u> problems involving measure using decimal notation, including scaling.	

Multiplication and division		
M20	I can <u>identify</u> multiples of a given number.	
M21	I can <u>identify</u> factors , including finding all factor pairs of a number.	
M22	I can <u>identify</u> common factors of two numbers.	
M23	I can <u>identify</u> and use the vocabulary of prime numbers, prime factors and composite numbers .	
M24	I can <u>investigate</u> whether a number up to 100 is prime.	
M25	I can <u>recall</u> prime numbers up to 19 .	
M26	I can <u>multiply</u> two-digit and three-digit numbers by a one-digit number.	
M27	I can <u>multiply</u> two-digit and three-digit numbers by a two-digit number using the formal written method of long multiplication .	
M28	I can <u>multiply and divide</u> numbers mentally drawing upon known facts.	
M29	I can <u>divide</u> numbers up to 4 digits by a one-digit number using the formal written method of short division .	
M30	I can <u>multiply and divide</u> whole numbers and those involving decimals by 10, 100 and 1000 .	
M31	I can <u>recognise and use</u> square and cube numbers . As well as recognising the notation for squared (²) and cubed (³).	
M32	I can <u>solve</u> problems involving x and + including using my knowledge of factors and multiples, squares and cubes.	
M33	I can <u>solve</u> problems involving +, -, x and ÷ . Understand the meaning of the equals (=) sign.	
M34	I can <u>solve</u> problems involving x and ÷ , including scaling by simple fractions and problems involving simple rates.	

Maths - Year 5 – Skills map

Fractions

M44	I can <u>compare</u> and order fractions whose denominators are all multiplies of the same number.
M45	I can <u>identify</u> , <u>name</u> and <u>write</u> equivalent fractions of a given fraction.
M46	I can <u>recognise</u> mixed numbers and improper fractions and convert from one form to the other, writing statements >1 as a mixed number. For example $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$
M47	I can <u>add</u> and <u>subtract</u> fractions with the same denominator and denominators that are multiples of the same number.
M48	I can <u>multiply</u> proper fractions and mixed numbers by whole numbers.

Decimals

M49	I can <u>read</u> and <u>write</u> decimal numbers as fractions.
M50	I can <u>recognise</u> and use thousandths and relate them to tenths, hundredths and decimal equivalents.
M51	I can <u>identify</u> how to round decimals with two decimal places to the nearest whole number.
M52	I can <u>identify</u> how to round decimals with two decimal places to one decimal place.
M53	I can <u>read</u> and <u>write</u> numbers with up to three decimal places.
M54	I can <u>order</u> and <u>compare</u> numbers with up to three decimal places.
M55	I can <u>solve</u> problems involving numbers up to three decimal places.

Percentages

M56	I can <u>recognise</u> the percent symbol (%) and <u>understand</u> that 'per-cent' relates to 'number of parts per hundred'.
M57	I can <u>write</u> percentages as a fraction with the denominator 100.
M58	I can <u>write</u> percentages as a decimal.
M59	I can <u>solve</u> problems which require knowing percentages and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}$ and $\frac{4}{5}$ and those fractions with a denominator that is a multiple of 10 or 25.

Geometry: properties of shape

M60	I can <u>identify</u> 3-D shapes , including cubes and other cuboids from 2-D representations (nets) .
M61	I can <u>understand</u> that angles are measured in degrees (°) .
M62	I can <u>estimate</u> and compare acute, obtuse and reflex angles .
M63	I can <u>draw</u> given angles and measure them in degrees.
M64	I can <u>identify</u> missing angles around a point/whole turn (total 360°).
M65	I can <u>identify</u> missing angles on a straight line/half turn (total 180°).
M66	I can <u>identify</u> other multiples of 90°.
M67	I can use the properties of rectangles to deduce related facts and find missing lengths and angles.
M68	I can <u>distinguish</u> between regular and irregular polygons based on reasoning about equal sides and angles.

Geometry: Position and movement

M69	I can <u>identify</u> , <u>describe</u> and <u>represent</u> the position of a shape following a reflection or translation .
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Chapter 5—Statistics

M70	I can <u>solve</u> comparison, sum and difference problems using information presented in a line graph .
M71	I can <u>complete</u> , <u>read</u> and <u>interpret</u> information in tables, including timetables .

Maths - Year 6 – Skills map

Number and Place Value

M1	I can <u>read and write</u> numbers up to 10 000 000.	
M2	I can <u>order and compare</u> numbers up to 10 000 000.	
M3	I can <u>determine</u> the value of each digit in numbers up to 10 000 000.	
M4	I can <u>identify</u> how to round any number to a required degree of accuracy.	
M5	I can <u>apply</u> negative numbers in context and calculate intervals across zero.	
M6	I can <u>solve</u> number and practical problems that involve all of the above.	

Algebra

M33	I can <u>use</u> simple formulae .	
M34	I can <u>generate and describe</u> linear number sequences .	
M35	I can <u>express</u> missing number problems algebraically .	
M36	I can <u>calculate</u> pairs of numbers that satisfy an equation with two unknowns .	
M37	I can enumerate (express the number of) possibilities of combinations of two variables.	

Addition, subtraction, multiplication and division

M7	I can <u>multiply</u> multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication .	
M8	I can <u>divide</u> numbers up to 4 digits by two-digit whole numbers using the formal written method of long division .	
M9	I can <u>interpret</u> remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	
M10	I can <u>divide</u> numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.	
M11	I can <u>perform</u> mental calculations, including using mixed operations and large numbers.	
M12	I can <u>identify</u> common factors, common multiples and prime numbers .	
M13	I can <u>apply</u> my knowledge of the order of operations to carry out calculations involving the four operations (BIDMAS).	
M14	I can <u>solve</u> addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	
M15	I can <u>solve</u> problems involving addition, subtraction, multiplication and division.	
M16	I can <u>apply</u> my knowledge of estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	
M17	I can <u>multiply and divide</u> numbers by 10, 100 and 1000 giving answers up to three decimal places.	
M18	I can <u>multiply</u> one-digit numbers with up to two decimal places by whole numbers.	
M19	I can <u>apply</u> written division methods in cases where the answer has two decimal places.	

Fractions, decimals and percentages

M20	I can <u>apply</u> your understanding of common factors to simplify fractions .	
M21	I can <u>apply</u> your understanding of common multiples to express fractions in the same denomination .	
M22	I can <u>compare and order</u> fractions, including fractions > 1 .	
M23	I can <u>add and subtract</u> fractions with different denominators and mixed numbers using the concept of equivalent fractions .	
M24	I can <u>multiply</u> simple pairs of proper fractions, writing the answer in its simplest form .	
M25	I can <u>divide</u> proper fractions by whole numbers.	
M26	I can <u>connect</u> fractions with division and calculate decimals fraction equivalents.	
M27	I can <u>identify</u> the value of each digit in numbers given to three decimal places.	
M31	I can <u>solve</u> problems which require answers to be rounded to specified degrees of accuracy.	
M32	I can <u>recall and apply</u> equivalences between simple fractions, decimals and percentages, including in different contexts.	

Maths - Year 6 – Skills map

Measurement	
M38	I can <u>solve problems</u> involving calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
M39	I can <u>apply, read, write and convert</u> between standard units .
M40	I can <u>convert</u> measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and vice versa.
M41	I can <u>convert</u> between miles and kilometres .
M42	I can <u>recognise</u> that shapes with the same areas can have different perimeters and vice versa.
M43	I can <u>recognise</u> when it is possible to use formulae for area and volume of shapes.
M44	I can <u>calculate</u> the area of parallelograms and triangles .
M45	I can <u>calculate, estimate and compare</u> volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³) .

Geometry: properties of shape	
M46	I can <u>draw 2-D shapes</u> using given dimensions and angles .
M47	I can <u>recognise, describe and build</u> simple 3-D shapes, including making nets .
M48	I can <u>compare and classify</u> geometric shapes based on their properties and sizes.
M49	I can <u>calculate</u> unknown angles in any triangles, quadrilaterals and regular polygons .
M50	I can <u>illustrate</u> and name parts of circles, including radius, diameter and circumference . Know that the diameter is twice the radius.
M51	I can <u>recognise</u> that angles, where they meet at a point, are on a straight line or are vertically opposite .
M52	I can <u>calculate</u> missing angles.
Chapter 13—Geometry: position and direction.	
M53	I can <u>describe</u> positions on the full coordinate grid (all four quadrants).
M54	I can <u>draw and translate</u> simple shapes on the coordinate plane.
M55	I can <u>draw and reflect</u> simple shapes in the axes.

Statistics	
M56	I can <u>interpret and construct</u> pie charts and use these to solve problems.
M57	I can <u>interpret and construct</u> line graphs and use these to solve problems.
M58	I can <u>calculate</u> and interpret the mean as an average .

Ratio and proportion	
M59	I can <u>solve problems</u> involving relative size of two quantities, where missing values can be found by using integer multiplication and division facts.
M60	I can <u>solve problems</u> involving the calculation of percentages and the use of percentages for comparison.
M61	I can <u>solve problems</u> involving similar shapes where the scale factor is known or can be found.
M62	I can <u>solve problems</u> involving unequal sharing and grouping , using knowledge of fractions and multiplies.