

For schools

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Curriculum map

Every skill BrightWren Plus teaches, by year, term and topic area, with the Department for Education ready-to-progress code where it has one.

Not Another Studio Ltd

248

skills taught
across Years 3 to
6

11

topic areas, from
place value to
algebra

99

carry a DfE
ready-to-progress
code

4

school years, Year
3 to Year 6

BrightWren Plus teaches 248 skills across Years 3 to 6 of the England National Curriculum for maths. This page lists every one, by year, by topic area (following the National Curriculum's own headings), and by the term it is usually met. The web page is built from the same list the app uses, so it is always what the app teaches. The PDF is a copy, dated at the top.

The DfE's ready-to-progress criteria are a short list of the most important content for each year, not the whole curriculum. Where a skill is one of them, its code is shown. **A blank means the skill is still part of the National Curriculum, but is not on that list.** Where we have split one criterion into smaller steps, those steps share its code. Terms are a guide, because schools order their year differently.

Year 3

47 skills

Year 4

48 skills

Year 5

66 skills

Year 6

87 skills

Year 3

47 skills

Number and place value

What the child learns	Term	DfE code
Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Autumn	3NPV-2
Identify, represent and estimate numbers using different representations; partition three-digit numbers	Autumn	
Read and write numbers up to 1000 in numerals and in words	Autumn	
Know that 10 tens are equivalent to 1 hundred, and work out how many tens are in a three-digit multiple of ten	Autumn	3NPV-1
Count from zero in multiples of 50 and 100	Autumn	
Compare and order numbers up to 1000	Autumn	3NPV-3
Find 10 or 100 more or less than a given number	Autumn	
Read the number marked on a number line	Autumn	3NPV-4
Place a number on a number line	Autumn	
Estimate where a number sits on a number line	Autumn	
Read a number line where not every mark is labelled	Autumn	

Year 3 **Addition and subtraction**

What the child learns	Term	DfE code
Add and subtract numbers mentally, including a three-digit number and ones, tens or hundreds	Autumn	
Add and subtract numbers to find and use complements to 100	Autumn	3AS-1
Add numbers up to three digits in a written column method	Autumn	3AS-2
Subtract numbers up to three digits in a written column method	Autumn	
Estimate the answer to a calculation and use the inverse to check answers and solve missing number problems	Autumn	3AS-3

Year 3 **Multiplication and division**

What the child learns	Term	DfE code
Write and calculate mathematical statements for multiplication and division within the tables they know	Spring	
Multiply two-digit numbers by a one-digit number using mental and progressing to formal written methods	Spring	
Solve problems involving multiplication and division, including scaling and correspondence problems	Spring	3MD-1

Year 3 Number facts

What the child learns	Term	DfE code
Apply place-value knowledge to scale known additive and multiplicative number facts by ten	Spring	3NF-3
Secure fluency in addition and subtraction facts that bridge ten	Autumn	3NF-1
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Autumn	3NF-2

Year 3 Fractions

What the child learns	Term	DfE code
Find and write unit and non-unit fractions of a set of objects or quantity	Summer	3F-2
Compare and order unit fractions and fractions with the same denominators; add and subtract fractions with the same denominator within one whole	Summer	3F-4
Understand and write proper fractions to represent one or several equal parts of a whole	Spring	3F-1
Recognise and show, using diagrams, equivalent fractions with small denominators	Spring	

Year 3 Measurement

What the child learns	Term	DfE code
Work out the change from an amount of money	Summer	
Add up amounts of money in pounds and pence	Summer	
Tell and write the time on an analogue clock to the minute, including using Roman numerals and 12-hour clocks	Summer	

What the child learns	Term	DfE code
Compare durations of events and find the number of minutes between two times	Summer	
Know the number of seconds in a minute, minutes in an hour, hours in a day, days in a week, months in a year and days in a year	Summer	
Measure a length with a ruler	Spring	
Read a capacity from a measuring jug	Spring	
Read a mass from a scale	Spring	
Add and subtract lengths, masses and capacities	Spring	
Compare lengths, masses and capacities	Spring	

Year 3 **Geometry**

What the child learns	Term	DfE code
Recognise and name common 2-D polygons by their number of sides (triangle, quadrilateral, pentagon, hexagon)	Summer	
Work out the perimeter of a shape	Spring	
Measure the sides of a shape to find its perimeter	Spring	
Tell a horizontal line from a vertical one	Summer	3G-2
Spot parallel and perpendicular lines	Summer	
Recognise, name and describe 3-D shapes, including faces, edges and vertices	Summer	
Say whether an angle is bigger or smaller than a right angle	Summer	3G-1
Match right angles to quarter, half and three-quarter turns	Summer	

Year 3 **Statistics**

What the child learns	Term	DfE code
Read and answer questions about a bar chart	Summer	
Read and answer questions about a pictogram	Summer	
Read and answer questions about a table	Summer	

Year 4

48 skills

Number and place value

What the child learns	Term	DfE code
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, ones)	Autumn	4NPV-2
Know that ten hundreds make a thousand, and find how many hundreds are in a multiple of 100	Autumn	4NPV-1
Read and locate four-digit numbers on a number line, and find the nearest multiples of 100 and 1000	Autumn	4NPV-3
Divide 1000 into equal parts and read scales marked in multiples of 1000	Autumn	4NPV-4
Order and compare numbers beyond 1000	Autumn	
Find 1000 more or less than a given number	Autumn	
Count in multiples of 6, 7, 9, 25 and 1000	Autumn	
Round any number to the nearest 10, 100 or 1000	Autumn	4NPV-3
Read Roman numerals to 100 (I to C)	Autumn	

Year 4 **Addition and subtraction**

What the child learns	Term	DfE code
Add and subtract numbers with up to four digits using formal column methods	Autumn	
Estimate by rounding, and use the inverse to check answers and solve missing-number problems	Autumn	
Solve two-step addition and subtraction problems in context	Autumn	

Year 4 **Multiplication and division**

What the child learns	Term	DfE code
Multiply and divide whole numbers by 10 and 100	Spring	4MD-1
Find factor pairs of a number and use multiplication facts and commutativity	Spring	4MD-2
Use the distributive law to multiply a two-digit number by a one-digit number	Spring	4MD-3
Multiply a two- or three-digit number by a one-digit number using short multiplication	Spring	
Multiply and divide mentally using known facts, including by 0 and 1 and multiplying three numbers	Autumn	

Year 4 Number facts

What the child learns	Term	DfE code
Scale known multiplication facts by 100	Spring	4NF-3
Divide a two-digit number by a one-digit number, with a remainder	Spring	4NF-2
Recall multiplication and division facts for tables up to 12 x 12	Autumn	4NF-1

Year 4 Fractions

What the child learns	Term	DfE code
Compare numbers with the same number of decimal places, up to two decimal places	Summer	
Solve money and measure problems involving decimals to two decimal places	Summer	
Recognise the decimal equivalents of one half, one quarter and three quarters	Summer	
Round decimals with one decimal place to the nearest whole number	Summer	
Recognise and find families of common equivalent fractions	Spring	
Reason about and locate mixed numbers in the linear number system	Spring	4F-1
Convert between mixed numbers and improper fractions	Spring	4F-2
Add and subtract fractions with the same denominator, including improper and mixed numbers	Spring	4F-3
Count up and down in tenths, and read tenths on a number line	Spring	
Count up and down in hundredths	Spring	

What the child learns	Term	DfE code
Recognise and write decimal equivalents of tenths and hundredths	Spring	
Find the effect of dividing a one- or two-digit number by 10 and 100	Spring	

Year 4
Measurement

What the child learns	Term	DfE code
Convert between different units of measure (for example, kilometre to metre; hour to minute)	Summer	
Estimate, compare and calculate different measures, including money in pounds and pence	Summer	
Read, write and convert time between analogue and digital 12- and 24-hour clocks	Summer	
Solve problems involving converting between units of time	Summer	
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Spring	
Find the area of rectilinear shapes by counting squares	Autumn	

Year 4 **Geometry**

What the child learns	Term	DfE code
Compare and classify triangles based on their properties (equilateral, isosceles, scalene, right-angled)	Summer	
Compare and classify quadrilaterals (square, rectangle, rhombus, parallelogram, trapezium)	Summer	
Identify acute, obtuse and right angles, and compare and order angles up to two right angles by size	Summer	4G-1
Identify lines of symmetry in 2-D shapes presented in different orientations	Summer	4G-3
Describe positions on a 2-D grid as coordinates in the first quadrant	Summer	4G-1
Plot specified points and draw or complete a polygon from coordinates	Summer	4G-1
Describe movements between positions as translations of a given unit to the left/right and up/down	Summer	
Complete a simple symmetric figure with respect to a specific line of symmetry	Summer	

Year 4 **Statistics**

What the child learns	Term	DfE code
Interpret and present discrete and continuous data using appropriate graphical methods, including time graphs (line graphs)	Summer	
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Summer	

Year 5

66 skills

Number and place value

What the child learns	Term	DfE code
Recognise the place value of each digit in numbers up to 1,000,000	Autumn	
Read and write numbers to at least 1,000,000 in numerals and in words	Autumn	
Compare and order numbers to at least 1,000,000	Autumn	
Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000	Autumn	
Count forwards and backwards in steps of powers of 10 up to 100,000	Autumn	
Interpret negative numbers in context and count forwards and backwards through zero	Summer	
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	Autumn	
Read and place numbers up to 1,000,000 on a number line and find the nearest round number	Autumn	5NPV-2

Year 5 Addition and subtraction

What the child learns	Term	DfE code
Add and subtract whole numbers with more than 4 digits using formal column methods	Autumn	
Add and subtract numbers mentally with increasingly large numbers	Autumn	
Use rounding to check answers and judge whether a result is reasonable	Autumn	
Solve multi-step addition and subtraction problems, deciding which operations and methods to use	Autumn	

Year 5 Multiplication and division

What the child learns	Term	DfE code
Identify multiples and common multiples	Autumn	5MD-2
Multiply and divide numbers mentally drawing upon known facts	Spring	
Solve problems involving multiplication and division, including scaling by simple fractions and rate problems	Spring	
Identify factors, including all factor pairs of a number, and common factors of two numbers	Autumn	5MD-2
Express a number as a product of two or three factors	Autumn	5MD-2
Know the vocabulary of prime, composite and prime factors, and recall prime numbers to 19	Autumn	
Recognise and use square numbers and cube numbers, and the notation for squared and cubed	Autumn	
Multiply and divide whole numbers and decimals by 10, 100 and 1000	Autumn	5MD-1

What the child learns	Term	DfE code
Multiply numbers up to 4 digits by a one-digit number using short multiplication	Spring	5MD-3
Multiply numbers up to 4 digits by a two-digit number using long multiplication	Spring	
Divide numbers up to 4 digits by a one-digit number using short division and interpret remainders in context	Spring	5MD-4

Year 5 Fractions

What the child learns	Term	DfE code
Compare and order fractions whose denominators are multiples of the same number	Autumn	5F-2
Identify, name and write equivalent fractions, including tenths and hundredths	Autumn	5F-2
Convert between mixed numbers and improper fractions with larger wholes and denominators	Autumn	
Add and subtract fractions with denominators that are multiples of the same number	Autumn	5F-3
Multiply proper fractions and mixed numbers by whole numbers	Spring	
Understand fractions as division and find fractions of a quantity	Spring	5F-1
Read and write decimal numbers as fractions, and fractions as decimals	Spring	
Find the whole when a fraction of it is known	Spring	

Year 5 **Decimals and percentages**

What the child learns	Term	DfE code
Understand the times-ten and divide-by-ten relationship between adjacent place-value columns, including decimals	Spring	5NPV-1
Recall and use equivalent fractions, decimals and percentages for common values	Spring	5F-3
Add and subtract decimals, including complements to 1 and mixed numbers of decimal places	Summer	
Recognise and use thousandths, relating them to tenths, hundredths and decimal equivalents	Spring	
Round decimals with two places to the nearest whole number and to one decimal place	Spring	5NPV-3
Read, write, order and identify decimals with up to three decimal places	Spring	
Compare and order decimals with up to three decimal places	Spring	5NPV-3
Locate a decimal on a number line and find the nearest whole and nearest tenth	Spring	5NPV-3
Read scales and number lines where the unit interval is divided into equal parts	Spring	5NPV-4
Scale known additive and multiplicative facts by one tenth and one hundredth	Spring	5NF-2
Recognise the per-cent symbol and write a percentage as a fraction and a decimal	Spring	

Year 5 Measurement

What the child learns	Term	DfE code
Convert between metric units, including those giving decimal answers	Summer	5NPV-5
Use approximate equivalences between metric and common imperial units	Summer	
Measure and calculate the perimeter of composite rectilinear shapes	Spring	
Calculate and compare the area of rectangles using the area formula	Spring	5G-2
Estimate the area of irregular shapes by counting squares	Spring	
Estimate volume by counting cubic centimetre blocks	Summer	
Estimate, read and compare capacity and volume	Summer	
Solve money and measure problems using all four operations with decimals	Summer	
Solve problems converting between units of time	Summer	

Year 5 Geometry

What the child learns	Term	DfE code
Compare and order angles by their size	Summer	5G-1
Reflect a shape in a horizontal or vertical mirror line	Summer	
Translate a shape and give the new coordinates of its vertices	Summer	
Name acute, right, obtuse, straight and reflex angles	Summer	5G-1
Estimate the size of an angle in degrees using reference angles	Summer	5G-1

What the child learns	Term	DfE code
Measure angles in degrees using a protractor	Summer	5G-1
Identify an angle of a given size	Summer	5G-1
Find missing angles on a straight line and at a point	Summer	5G-1
Distinguish regular and irregular polygons by their sides and angles	Summer	5G-2
Use the properties of rectangles to find missing sides and angles	Summer	
Identify 3-D shapes from 2-D representations and nets	Summer	

Year 5 Statistics

What the child learns	Term	DfE code
Read, interpret and solve problems using line graphs	Spring	
Compare two data sets on a single line graph	Spring	
Read and interpret timetables, including journey durations	Spring	
Complete, read and interpret a two-way table	Spring	

Year 6

87 skills

Number and place value

What the child learns	Term	DfE code
Determine the value of each digit in numbers up to 10,000,000	Autumn	6NPV-1
Read and write numbers up to 10,000,000 in figures and words	Autumn	6NPV-1
Compare and order numbers up to 10,000,000	Autumn	6NPV-2
Round any whole number up to 10,000,000 to a required degree of accuracy	Autumn	6NPV-2
Read and place numbers up to 10,000,000 on a number line and find the nearest round number	Autumn	6NPV-2
Use negative numbers in context and calculate intervals across zero	Autumn	
Understand the times-ten relationship between adjacent place-value columns, including decimals	Autumn	6NPV-1

Year 6 Addition and subtraction

What the child learns	Term	DfE code
Add and subtract whole numbers with more than four digits using column methods	Autumn	6AS/MD-1
Perform mental calculations with increasingly large numbers	Autumn	6AS/MD-1
Use the order of operations to carry out calculations including brackets	Autumn	6AS/MD-3
Place brackets in an expression to give a required value	Autumn	6AS/MD-3
Use estimation to check answers and determine an appropriate degree of accuracy	Autumn	6AS/MD-3
Solve multi-step problems deciding which operations and methods to use	Autumn	6AS/MD-1

Year 6 Multiplication and division

What the child learns	Term	DfE code
Multiply numbers up to four digits by a two-digit number using long multiplication	Autumn	
Use the rules of divisibility (2, 3, 4, 5, 6, 8, 9, 10, 25)	Autumn	
Divide numbers up to four digits by a two-digit number using long division	Autumn	
Interpret remainders as whole numbers, fractions or by rounding, as appropriate	Autumn	
Divide numbers up to four digits by a one-digit number, interpreting remainders by context	Autumn	
Perform mental calculations with mixed operations and large numbers	Autumn	6AS/MD-2

What the child learns	Term	DfE code
Identify common factors and the highest common factor of two numbers	Autumn	
Identify common multiples and the lowest common multiple of two numbers	Autumn	
Identify prime numbers and express a number as a product of its prime factors	Autumn	
Solve multi-step problems involving multiplication and division	Autumn	6AS/MD-1

Year 6 Fractions

What the child learns	Term	DfE code
Simplify fractions using common factors	Autumn	6F-1
Compare and order fractions, including fractions greater than one	Autumn	6F-1
Add and subtract fractions with different denominators	Autumn	6F-2
Add and subtract mixed numbers with different denominators	Autumn	6F-2
Multiply pairs of proper fractions, writing the answer in its simplest form	Autumn	6F-3
Divide a proper fraction by a whole number	Autumn	6F-3
Find a fraction of a quantity and recover the whole from a part	Autumn	
Solve multi-step problems involving fractions	Autumn	

Year 6 Decimals and percentages

What the child learns	Term	DfE code
Identify the value of each digit in numbers with up to three decimal places	Spring	
Solve problems involving percentages and percentage change	Spring	6R-2
Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places	Spring	6NPV-2
Multiply one-digit numbers with up to two decimal places by whole numbers	Spring	
Use written division methods where the answer has up to two decimal places	Spring	
Associate a fraction with division to find its decimal equivalent	Spring	6F-2
Round decimals with up to three decimal places to a required accuracy	Spring	
Solve problems requiring answers rounded to a specified degree of accuracy	Spring	
Recall and use equivalences between fractions, decimals and percentages	Spring	6R-1
Find a percentage of a whole number	Spring	6R-2

Year 6 Ratio and proportion

What the child learns	Term	DfE code
Express and simplify ratios using common factors	Spring	6R-1
Use fractions to describe the relative sizes of two quantities	Spring	6R-2
Solve ratio problems using the unitary method	Spring	6R-3

What the child learns	Term	DfE code
Solve problems involving unequal sharing in a ratio	Spring	6R-3
Solve problems involving direct proportion and scaling	Spring	6R-3
Solve problems involving relative sizes and scale factors	Spring	6R-1
Calculate percentages of amounts for comparison	Spring	
Find a missing side of similar shapes using a scale factor	Spring	6R-4
Find the scale factor between two similar shapes	Spring	6R-4

Year 6 Algebra

What the child learns	Term	DfE code
Use simple formulae by substituting values	Spring	
Express a relationship as an algebraic rule	Spring	
Generate and continue a linear number sequence	Spring	
Describe a linear sequence and find a given term	Spring	
Express missing-number problems algebraically and solve them	Spring	
Find pairs of numbers that satisfy an equation with two unknowns	Spring	6AS/MD-4
Enumerate all possibilities of combinations	Spring	6AS/MD-4

Year 6 Measurement

What the child learns	Term	DfE code
Convert between metric units, using decimals up to three places	Autumn	

What the child learns	Term	DfE code
Solve money and measure problems using all four operations	Autumn	
Convert between miles and kilometres	Autumn	
Recognise that shapes with the same area can have different perimeters and vice versa	Spring	
Find the perimeter and area of composite rectilinear shapes	Spring	
Calculate the area of triangles	Spring	
Calculate the area of parallelograms	Spring	
Calculate the volume of cubes and cuboids using the formula	Spring	
Compare the volumes of cubes and cuboids	Spring	
Solve problems involving the calculation and conversion of units of measure	Autumn	

Year 6 **Geometry**

What the child learns	Term	DfE code
Draw 2-D shapes given dimensions and angles	Summer	6G-1
Plot points and find a missing vertex in all four quadrants	Summer	
Reflect a shape in the x-axis or y-axis using coordinates	Summer	
Translate a shape on the full coordinate grid using coordinates	Summer	
Recognise, describe and build simple 3-D shapes, including making nets	Summer	
Describe 3-D shapes by their faces, edges and vertices	Summer	

What the child learns	Term	DfE code
Compare and classify shapes by their properties and sizes	Summer	
Illustrate and name the parts of a circle, including radius, diameter and circumference	Summer	
Find unknown angles in triangles and quadrilaterals	Summer	6G-1
Find the interior angle of a regular polygon	Summer	6G-1
Find unknown angles using vertically opposite angles and angles at a point or on a line	Summer	
Describe positions on the full coordinate grid (all four quadrants)	Summer	

Year 6 **Statistics**

What the child learns	Term	DfE code
Interpret and read pie charts	Spring	
Use a pie chart and a total to find the quantity a slice represents	Spring	
Construct a pie chart from a set of data	Spring	
Interpret line graphs to solve problems	Spring	
Compare two data sets on one line graph	Spring	
Calculate and interpret the mean as an average	Spring	
Use the mean to find a missing value or a total	Spring	
Interpret and reason about the mean in context	Spring	

| Beyond the year-by-year skills

BrightWren also has two practice pages built to the published rules of the national tests: the Year 4 multiplication tables check, and the Year 6 SATs arithmetic paper (Paper 1). They are described in the [leaflet for schools](#).