

	Unit	Unit name
Autumn 1	1	Calculating using knowledge of structures (1)
Autumn 2	2	Multiples of 1,000
	3	Numbers up to 10,000,000
	4	Draw, compose and decompose shapes
Spring 1	5	Multiplication and division
	6	
Spring 2		Fractions and percentages
Summer 1	8	Statistics
		KS2 tests
Summer 2	9	Ratio and proportion
	10	Calculating using knowledge of structures (2)
	11	
		Solving problems with two unknowns
	12	Order of operations
	13	Mean average
	14	Measurement

	Number and place value
	Addition and subtraction
	Multiplication and division
	Fractions
	Geometry
	Other

# Year 6

## Curriculum map

## Year 6

Measurement and Statistics are integrated as applications of number criteria, and elements of measurement that relate to shape are included in the Geometry strand.

Pre-assessment ready-to-progress questions used at the start of a unit to check that pupils have the pre-requisite knowledge and skills.

### SEND PRIORITISATION

1	<b>Calculating using knowledge of structures (1)</b> <ul style="list-style-type: none"> <li>6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).</li> </ul> <b>6A Unit 2 Four operations (1)</b> <ul style="list-style-type: none"> <li>Lesson 3 Problem solving- addition and subtraction</li> <li>Lesson 4 Common factors</li> <li>Lesson 5 Common multiples</li> <li>Lesson 7 Primes to 100</li> <li>Lesson 8 Squares and cubes</li> </ul> <b>6A Unit 3 Four operations (2)</b> <ul style="list-style-type: none"> <li>Lesson 10 Mental calculations (1)</li> <li>Lesson 11 Mental calculations (2)</li> </ul> <ul style="list-style-type: none"> <li>6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</li> </ul> <b>6A Unit 3 Four operations (2)</b> <ul style="list-style-type: none"> <li>Lesson 12 Reason from known facts</li> </ul> <ul style="list-style-type: none"> <li>1.28 Common structures and the part–part–whole relationship</li> <li>1.29 Using equivalence and the compensation property to calculate</li> </ul>
2	<b>Multiples of 1,000</b> <ul style="list-style-type: none"> <li>1.26 Composition and calculation: multiples of 1,000 up to 1,000,000</li> </ul>
3	<b>Numbers up to 10,000,000</b> <ul style="list-style-type: none"> <li>6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).</li> </ul> <b>6A Unit 1 Place value within 10,000,000</b> <ul style="list-style-type: none"> <li>Lesson 1 Numbers to 1,000,000</li> <li>Lesson 2 Numbers to 10,000,000</li> <li>Lesson 4 Powers of 10</li> </ul> <b>6B Unit 9 Decimals</b> <ul style="list-style-type: none"> <li>Lesson 4 Multiply 10, 100 and 1,000</li> <li>Lesson 5 Divide by 10, 100 and 1,000</li> </ul> <ul style="list-style-type: none"> <li>6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.</li> </ul> <b>6A Unit 1 Place value within 10,000,000</b> <ul style="list-style-type: none"> <li>Lesson 2 Numbers to 10,000,000</li> <li>Lesson 3 Partition numbers to 10,000,000</li> </ul> <ul style="list-style-type: none"> <li>6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.</li> </ul> <b>6A Unit 1 Place value within 10,000,000</b> <ul style="list-style-type: none"> <li>Lesson 5 Number line to 10,000,000</li> <li>Lesson 6 Compare and order any number</li> <li>Lesson 7 Round any number</li> </ul> <b>6B Unit 9 Decimals</b> <ul style="list-style-type: none"> <li>Lesson 2 Round decimals</li> </ul> <ul style="list-style-type: none"> <li>6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</li> </ul> <b>6A Unit 1 Place value within 10,000,000</b> <ul style="list-style-type: none"> <li>Lesson 5 Number line to 10,000,000</li> <li>Lesson 8 Negative numbers</li> </ul> <b>6C Unit 12 Statistics</b> <ul style="list-style-type: none"> <li>Lesson 1 Interpret line graphs</li> <li>Lesson 2 Draw line graphs</li> </ul> <ul style="list-style-type: none"> <li>1.30 Composition and calculation: numbers up to 10,000,000</li> </ul>
4	<b>Draw, compose and decompose shapes</b> <ul style="list-style-type: none"> <li>6G–1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.</li> </ul> <b>6C Unit 13 Geometry – properties of shapes</b> <ul style="list-style-type: none"> <li>Lesson 1 Measure and classify angles</li> <li>Lesson 2 Vertically opposite angles</li> <li>Lesson 3 Angles in a triangle</li> <li>Lesson 4 Angles in a triangle – missing angles</li> <li>Lesson 5 Angles in a triangle – special cases</li> <li>Lesson 6 Angles in quadrilaterals</li> <li>Lesson 7 Angles in polygons</li> <li>Lesson 9 Parts of a circle</li> <li>Lesson 10 Draw shapes accurately</li> <li>Lesson 12 Nets of 3D shapes (2)</li> </ul>

	Number and place value
	Number facts
	Addition and subtraction
	Multiplication and division
	Fractions
	Geometry
	Other

Dark grey references are ready-to-progress criteria from the DfE Guidance 2020

Light grey references are from the NCETM Primary Mastery Professional Development materials

Blue references key Power Maths lessons

	<b>Multiplication and division</b> <ul style="list-style-type: none"> <li>6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</li> </ul>
5	<b>6A Unit 3 Four operations (2)</b> <ul style="list-style-type: none"> <li>Lesson 12 Reason from known facts</li> <li>2.18 Using equivalence to calculate</li> <li>2.23 Multiplication strategies for larger numbers and long multiplication</li> </ul>
	<b>6A Unit 3 Four operations (2)</b> <b>Lesson 1 Multiply by a 1-digit number</b> <b>Lesson 2 Multiply up to a 4-digit number by a 2-digit number</b> <ul style="list-style-type: none"> <li>2.24 Division: dividing by two-digit divisors</li> </ul>
6	<b>6A Unit 3 Four operations (2)</b> <b>Lesson 3 Short division</b> <b>Lesson 6 Divide a 4-digit number by a 2-digit number (long division)</b> <b>Lesson 7 Long division with remainders</b> <ul style="list-style-type: none"> <li>2.25 Using compensation to calculate</li> </ul> <b>Area, perimeter, position and direction</b> <ul style="list-style-type: none"> <li>2.30 Multiplicative contexts: area and perimeter 2</li> </ul> <b>6B Unit 11 Measure – perimeter and area</b> <ul style="list-style-type: none"> <li>Lesson 1 Shapes – same area</li> <li>Lesson 2 Area and perimeter</li> <li>Lesson 3 Area and perimeter – missing lengths</li> <li>Lesson 4 Area of a triangle – counting squares</li> <li>Lesson 5 Area of a right-angled triangle</li> <li>Lesson 6 Area of any triangle</li> <li>Lesson 7 Area of a parallelogram</li> <li>Lesson 8 Problem solving – area</li> <li>Lesson 9 Problem solving – perimeter</li> </ul>
7	<b>Fractions and percentages</b> <ul style="list-style-type: none"> <li>6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.</li> </ul> <b>6A Unit 4 Fractions (1)</b> <ul style="list-style-type: none"> <li>Lesson 1 Equivalent fractions and simplifying</li> <li>Lesson 2 Equivalent fractions on a number line</li> </ul> <ul style="list-style-type: none"> <li>6F–2 Express fractions in a common denominator and use this to compare fractions that are similar in value.</li> </ul> 6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denominations as a comparison strategy.
8	<b>6A Unit 4 Fractions (1)</b> <ul style="list-style-type: none"> <li>Lesson 3 Compare and order fractions</li> <li>3.8 Common denominator: more adding and subtracting</li> </ul> <b>6A Unit 4 Fractions (1)</b> <ul style="list-style-type: none"> <li>Lesson 5 Add and subtract any two fractions</li> <li>Lesson 6 Add mixed numbers</li> <li>Lesson 7 Subtract mixed numbers</li> <li>Lesson 9 Problem solving – add and subtract fractions</li> <li>3.9 Multiplying fractions and dividing fractions by a whole number</li> </ul> <b>6A Unit 5 Fractions (2)</b> <ul style="list-style-type: none"> <li>Lesson 1 Multiply fractions by integers</li> <li>Lesson 3 Multiply fractions by fractions (2)</li> <li>Lesson 6 Divide a fraction by an integer (3)</li> <li>Lesson 7 Mixed questions with fractions</li> <li>Lesson 8 Fraction of an amount</li> <li>Lesson 9 Fraction of an amount -find the whole</li> <li>3.10 Linking fractions, decimals and percentages</li> </ul> <b>6B Unit 10 Percentages</b> <ul style="list-style-type: none"> <li>Lesson 1 Understand percentages</li> <li>Lesson 2 Fractions to percentages</li> <li>Lesson 3 Equivalent fractions, decimals and percentages</li> <li>Lesson 4 Order fractions, decimals and percentages</li> <li>Lesson 7 Percentages of an amount</li> <li>Lesson 8 Percentages (missing values)</li> </ul>
	<b>Statistics</b> <ul style="list-style-type: none"> <li>This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery PD Materials.</li> </ul> <b>6C Unit 12 Statistics</b> <ul style="list-style-type: none"> <li>Lesson 5 Read and interpret pie charts</li> <li>Lesson 7 Pie charts and fractions (2)</li> </ul>
9	<b>Ratio and proportion</b> <ul style="list-style-type: none"> <li>6AS/MD–3 Solve problems involving ratio relationships.</li> </ul> <b>6B Unit 7 Ratio and proportion</b> <ul style="list-style-type: none"> <li>Lesson 1 Use ratio language</li> <li>Lesson 2 Introduce the ratio symbol</li> <li>Lesson 3 Use ratio</li> </ul>

	<ul style="list-style-type: none"> <li>• Lesson 6 Similar shapes</li> <li>• Lesson 7 Ratio problems</li> <li>• Lesson 8 Problem solving – ratio and proportion (1)</li> <li>• Lesson 9 Problem solving – ratio and proportion (2)</li> <li>• 2.27 Scale factors, ratio and proportional reasoning</li> </ul> <b>6B Unit 7 Ratio and proportion</b> <ul style="list-style-type: none"> <li>• Lesson 5 Scale factors</li> </ul>
10	<b>Calculating using knowledge of structures (2)</b> <ul style="list-style-type: none"> <li>• 6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</li> <li>• 1.29 Using equivalence and the compensation property to calculate</li> </ul> <b>6B Unit 9 Decimals</b> <ul style="list-style-type: none"> <li>• Lesson 1 Place value to 3 decimal places</li> <li>• Lesson 3 Add and subtract decimals</li> <li>• Lesson 6 Multiply decimals by integers</li> <li>• Lesson 7 Divide decimals by integers</li> <li>• Lesson 8 Fractions to decimals</li> </ul>
11	<b>Solving problems with two unknowns</b> <ul style="list-style-type: none"> <li>• 6AS/MD–4 Solve problems with 2 unknowns.</li> </ul> <b>6B Unit 8 Algebra</b> <ul style="list-style-type: none"> <li>• Lesson 2 Find a rule-two steps</li> <li>• Lesson 5 Substitution (2)</li> <li>• Lesson 6 Formulae</li> <li>• Lesson 7 Form and solve equations</li> </ul> 1.31 Problems with two unknowns <b>6B Unit 8 Algebra</b> <ul style="list-style-type: none"> <li>• Lesson 10 Find pairs of values</li> <li>• Lesson 11 Solve problems with two unknowns</li> </ul> <b>6C Unit 14 Geometry -position and direction</b> <ul style="list-style-type: none"> <li>• Lesson 2 Read and plot points in four quadrants</li> <li>• Lesson 3 Translations</li> <li>• Lesson 4 Reflections</li> </ul>
12	<b>Order of operations</b> <ul style="list-style-type: none"> <li>• 2.22 Combining multiplication with addition and subtraction</li> <li>• 2.28 Combining division with addition and subtraction</li> </ul> <b>6A Unit 3 Four operations (2)</b> <ul style="list-style-type: none"> <li>• Lesson 8 Order of operations</li> <li>• Lesson 9 Brackets</li> </ul>
13	<b>Mean average</b> <ul style="list-style-type: none"> <li>• 2.26 Mean average and equal shares</li> </ul> <b>6C Unit 12 Statistics</b> Lesson 9 Introduction to the mean Lesson 10 Calculate the mean Lesson 11 Problem solving-mean
14	<b>Measurement</b> <b>6A Unit 6 Measure-imperial and metric measures</b> <ul style="list-style-type: none"> <li>• Lesson 2 Convert metric measures</li> <li>• Lesson 4 Miles and kilometers</li> <li>• Lesson 5 Imperial measures</li> </ul> <b>6B Unit 11 Measure-perimeter, area and volume</b> <ul style="list-style-type: none"> <li>• Lesson 10 Volume-count cubes</li> <li>• Lesson 11 Volume of a cuboid</li> </ul>