

Power Maths White Rose Maths Edition to National curriculum matching chart KS2

Year 3

Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
Textbook 3A	Unit 1, Place value within 1,000	<ul style="list-style-type: none"> Represent and partition numbers to 100 	2	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (10s, 1s).
			3	Number – number and place value	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations, including the number line.
		<ul style="list-style-type: none"> Number line to 100 	3	Number – number and place value	<ul style="list-style-type: none"> Compare and order numbers up to 1,000. Identify, represent and estimate numbers using different representations, including the number line.
		<ul style="list-style-type: none"> 100s 	3	Number – number and place value	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> Represent numbers to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> Partition numbers to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a three-digit number (100s, 10s, 1s). Identify, represent and estimate numbers using different representations, including the number line.
		<ul style="list-style-type: none"> Partition numbers to 1,000 flexibly 	3	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> 100s, 10s and 1s 	3	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a three-digit number (100s, 10s, 1s). Identify, represent and estimate numbers using different representations, including the number line.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Use a number line to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> Estimate on a number line to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations.
		<ul style="list-style-type: none"> Find 1, 10 and 100 more or less 	3	Number – number and place value	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> Compare numbers to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Compare and order numbers up to 1,000. Identify, represent and estimate numbers using different representations, including the number line.
		<ul style="list-style-type: none"> Order numbers to 1,000 	3	Number – number and place value	<ul style="list-style-type: none"> Compare and order numbers up to 1,000. Recognise the place value of each digit in a three-digit number (100s, 10s, 1s).
		<ul style="list-style-type: none"> Count in 50s 	3	Number – number and place value	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.
	Unit 2, Addition and subtraction (1)	<ul style="list-style-type: none"> Use known number bonds 	2	Number – addition and subtraction	<ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (10s, 1s).
			3		<ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Add/subtract 1s 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
		<ul style="list-style-type: none"> Add/subtract 10s 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Add/subtract 100s 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Spot the pattern 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Add 1s across 10 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Add 10s across 100 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Subtract 1s across 10 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Subtract 10s across 100 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Make connections 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
	Unit 3, Addition and subtraction (2)	<ul style="list-style-type: none"> Add two numbers 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Subtract two numbers 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Add two numbers (across 10) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Add two numbers (across 100) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Subtract two numbers (across 10) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Subtract two numbers (across 100) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Add a 3-digit and a 2-digit number 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Subtract a 2-digit number from a 3-digit number 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.
		<ul style="list-style-type: none"> Complements to 100 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
		<ul style="list-style-type: none"> Estimate answers 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate the answer to a calculation and use inverse operations to check answers.
		<ul style="list-style-type: none"> Inverse operations 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate the answer to a calculation and use inverse operations to check answers.
		<ul style="list-style-type: none"> Problem solving (1) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
		<ul style="list-style-type: none"> Problem solving (2) 	3	Number – addition and subtraction	<ul style="list-style-type: none"> Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
	Unit 4, Multiplication and division (1)	<ul style="list-style-type: none"> • Multiplication – equal groups 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
		<ul style="list-style-type: none"> • Use arrays 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
		<ul style="list-style-type: none"> • Multiples of 2 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Multiples of 5 and 10 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
		<ul style="list-style-type: none"> • Share and group 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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. • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
	Unit 5, Multiplication and division (2)	<ul style="list-style-type: none"> • Multiply by 3 	3	Number – multiplication and division	<ul style="list-style-type: none"> • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • 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.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Divide by 3 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> The 3 times-table 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> Multiply by 4 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Divide by 4 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> The 4 times-table 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> Multiply by 8 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Divide by 8 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> The 8 times-table 	3	Number – multiplication and division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. 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.
		<ul style="list-style-type: none"> Problem solving – multiplication and division (1) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Problem solving – multiplication and division (2) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.
		<ul style="list-style-type: none"> Understand divisibility (1) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.

Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Understand divisibility (2) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.
Textbook 3B	Unit 6, Multiplication and division (3)	<ul style="list-style-type: none"> Multiples of 10 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Related calculations 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Reasoning about multiplication 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Multiply 2-digits by 1-digit – no exchange 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Multiply 2-digits by 1-digit – exchange 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Expanded written method 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Link multiplication and division 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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.
		<ul style="list-style-type: none"> • Divide 2-digits by 1-digit – no exchange 	3	Number – multiplication and division	<ul style="list-style-type: none"> • 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.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Divide 2-digits by 1-digit – flexible partitioning 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Divide 2-digits by 1-digit with remainders 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> How many ways? 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Problem solving – mixed problems (1) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Problem solving – mixed problems (2) 	3	Number – multiplication and division	<ul style="list-style-type: none"> 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. 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.
	Unit 7, Length and perimeter	<ul style="list-style-type: none"> Measure in m and cm 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Measure in cm and mm 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Metres, centimetres and millimetres 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Equivalent lengths (m and cm) 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Equivalent lengths (mm and cm) 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Compare lengths 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Add lengths 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).

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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Subtract lengths 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Measure perimeter 	3	Measurement	<ul style="list-style-type: none"> Measure the perimeter of simple 2D shapes.
		<ul style="list-style-type: none"> Calculate perimeter 	3	Measurement	<ul style="list-style-type: none"> Measure the perimeter of simple 2D shapes.
		<ul style="list-style-type: none"> Problem solving – length 	3	Measurement	<ul style="list-style-type: none"> Measure the perimeter of simple 2D shapes.
	Unit 8, Fractions (1)	<ul style="list-style-type: none"> Understand the denominator of unit fractions 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
		<ul style="list-style-type: none"> Compare and order unit fractions 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
		<ul style="list-style-type: none"> Understand the numerator of non-unit fractions 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
		<ul style="list-style-type: none"> Understand the whole 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
		<ul style="list-style-type: none"> Compare and order non-unit fractions 	3	Number – fractions	<ul style="list-style-type: none"> Compare and order unit fractions, and fractions with the same denominators.
		<ul style="list-style-type: none"> Divisions on a number line 	3	Number – fractions	<ul style="list-style-type: none"> Compare and order unit fractions, and fractions with the same denominators.
		<ul style="list-style-type: none"> Count in fractions on a number line 	3	Number – fractions	<ul style="list-style-type: none"> Compare and order unit fractions, and fractions with the same denominators.
		<ul style="list-style-type: none"> Equivalent fractions as bar models 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators.
		<ul style="list-style-type: none"> Equivalent fractions on a number line 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators.

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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Equivalent fractions 	3	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators.
	Unit 9, Mass	<ul style="list-style-type: none"> Use scales 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Measure mass 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Measure mass in kilograms and grams 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Equivalent masses 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Compare mass 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Add and subtract mass 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Problem solving – mass 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
	Unit 10, Capacity	<ul style="list-style-type: none"> Measure capacity and volume in litres and millilitres 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Measure in litres and millilitres 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		<ul style="list-style-type: none"> Equivalent capacities and volumes (litres and millilitres) 	3	Measurement	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		• Compare capacity and volume	3	Measurement	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		• Add and subtract capacity and volume	3	Measurement	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
		• Problem solving – capacity	3	Measurement	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
Textbook 3C	Unit 11, Fractions (2)	• Add fractions	3	Number – fractions	• Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].
		• Subtract fractions	3	Number – fractions	• Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].
		• Partition the whole	3	Number – fractions	• Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].
		• Problem solving – add and subtract fractions	3	Number – fractions	• Solve problems that involve all of the above.
		• Unit fractions of a set of objects	3	Number – fractions	• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
		• Non-unit fractions of a set of objects	3	Number – fractions	• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
		• Reason with fractions of an amount	3	Number – fractions	• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Problem solving – fractions of measures 	3	Number – fractions	<ul style="list-style-type: none"> Solve problems that involve all of the above.
	Unit 12, Money	<ul style="list-style-type: none"> Pounds and pence 	3	Measurement	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts.
		<ul style="list-style-type: none"> Convert pounds and pence 	3	Measurement	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts.
		<ul style="list-style-type: none"> Add money 	3	Measurement	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts.
		<ul style="list-style-type: none"> Subtract money 	3	Measurement	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts.
		<ul style="list-style-type: none"> Find change 	3	Measurement	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts.
	Unit 13, Time	<ul style="list-style-type: none"> Roman numerals to 12 	3	Measurement	<ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
		<ul style="list-style-type: none"> Tell the time to 5 minutes 	3	Measurement	<ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
		<ul style="list-style-type: none"> Tell the time to the minute 	3	Measurement	<ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. 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.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Read time on a digital clock 	3	Measurement	<ul style="list-style-type: none"> 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. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
		<ul style="list-style-type: none"> Use am and pm 	3	Measurement	<ul style="list-style-type: none"> 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. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
		<ul style="list-style-type: none"> Years, months and days 	3	Measurement	<ul style="list-style-type: none"> Know the number of seconds in a minute and the number of days in each month, year and leap year.
		<ul style="list-style-type: none"> Days and hours 	3	Measurement	<ul style="list-style-type: none"> 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. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Hours and minutes – start and end times 	3	Measurement	<ul style="list-style-type: none"> 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. Compare durations of events [for example to calculate the time taken by particular events or tasks].
		<ul style="list-style-type: none"> Hours and minutes – durations 	3	Measurement	<ul style="list-style-type: none"> Compare durations of events [for example to calculate the time taken by particular events or tasks]. 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.
		<ul style="list-style-type: none"> Hours and minutes – compare durations 	3	Measurement	<ul style="list-style-type: none"> 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. Compare durations of events [for example to calculate the time taken by particular events or tasks].
		<ul style="list-style-type: none"> Minutes and seconds 	3	Measurement	<ul style="list-style-type: none"> 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.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Solve problems with time 	3	Measurement	<ul style="list-style-type: none"> 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.
	Unit 14, Angles and properties of shapes	<ul style="list-style-type: none"> Turns and angles 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Recognise angles as a property of shape or a description of a turn. 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.
		<ul style="list-style-type: none"> Right angles in shapes 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Recognise angles as a property of shape or a description of a turn. 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.
		<ul style="list-style-type: none"> Compare angles 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> 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. Recognise angles as a property of shape or a description of a turn.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Measure and draw accurately 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> Horizontal and vertical 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> Parallel and perpendicular 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> Recognise, draw and describe 2D shapes 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.
		<ul style="list-style-type: none"> Recognise and describe 3D shapes 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.
		<ul style="list-style-type: none"> Make 3D shapes 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.
	Unit 15, Statistics	<ul style="list-style-type: none"> Interpret pictograms (1) 	3	Statistics	<ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. 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.
		<ul style="list-style-type: none"> Interpret pictograms (2) 	3	Statistics	<ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables.



Power Maths Year 3			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Draw pictograms 	3	Statistics	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables. • 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.
		<ul style="list-style-type: none"> • Interpret bar charts (1) 	3	Statistics	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables.
		<ul style="list-style-type: none"> • Interpret bar charts (2) 	3	Statistics	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables. • 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.
		<ul style="list-style-type: none"> • Collect and represent data in a bar chart 	3	Statistics	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables.
		<ul style="list-style-type: none"> • Simple two-way tables 	3	Statistics	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables.

Year 4

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
Textbook 4A	Unit 1, Place value – 4-digit numbers (1)	<ul style="list-style-type: none"> Represent and partition numbers to 1,000 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s).
		<ul style="list-style-type: none"> Number line to 1,000 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s).
		<ul style="list-style-type: none"> Multiples of 1,000 	4	Number – number and place value	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1,000.
		<ul style="list-style-type: none"> 4-digit numbers 	4	Number – number and place value	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations.
		<ul style="list-style-type: none"> Partition 4-digit numbers 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s).
		<ul style="list-style-type: none"> Partition 4-digit numbers flexibly 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s). Identify, represent and estimate numbers using different representations.
		<ul style="list-style-type: none"> 1, 10, 100, 1,000 more or less 	4	Number – number and place value	<ul style="list-style-type: none"> Find 1,000 more or less than a given number.
			3	Number – number and place value	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.
		<ul style="list-style-type: none"> 1,000s, 100s, 10s and 1s 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s). Identify, represent and estimate numbers using different representations.
		Unit 2, Place value – 4-digit numbers (2)	<ul style="list-style-type: none"> Number line to 10,000 	4	Number – number and place value



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Between two multiples 	4	Number – number and place value	<ul style="list-style-type: none"> Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s). Count in multiples of 6, 7, 9, 25 and 1000.
		<ul style="list-style-type: none"> Estimate on a number line to 10,000 	4	Number – number and place value	<ul style="list-style-type: none"> Order and compare numbers beyond 1,000. Identify, represent and estimate numbers using different representations.
		<ul style="list-style-type: none"> Compare and order numbers to 10,000 	4	Number – number and place value	<ul style="list-style-type: none"> Order and compare numbers beyond 1,000. Identify, represent and estimate numbers using different representations.
		<ul style="list-style-type: none"> Round to the nearest 1,000 	4	Number – number and place value	<ul style="list-style-type: none"> Round any number to the nearest 10, 100 or 1,000.
		<ul style="list-style-type: none"> Round to the nearest 100 	4	Number – number and place value	<ul style="list-style-type: none"> Round any number to the nearest 10, 100 or 1,000.
		<ul style="list-style-type: none"> Round to the nearest 10 	4	Number – number and place value	<ul style="list-style-type: none"> Round any number to the nearest 10, 100 or 1,000.
		<ul style="list-style-type: none"> Round to the nearest 1,000, 100 or 10 	4	Number – number and place value	<ul style="list-style-type: none"> Round any number to the nearest 10, 100 or 1,000.
	Unit 3, Addition and subtraction	<ul style="list-style-type: none"> Add and subtract 1s, 10s, 100s, 1,000s 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
				Number – number and place value	<ul style="list-style-type: none"> Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
		<ul style="list-style-type: none"> Add two 4-digit numbers 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Add two 4-digit numbers – one exchange 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Add with more than one exchange 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Subtract two 4-digit numbers 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Subtract two 4-digit numbers – one exchange 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Subtract two 4-digit numbers – more than one exchange 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Exchange across two columns 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Efficient methods 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation. Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
		<ul style="list-style-type: none"> Equivalent difference 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation.
		<ul style="list-style-type: none"> Estimate answers 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation.



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		• Check strategies	4	Number – addition and subtraction	• Estimate and use inverse operations to check answers to a calculation.
		• Problem solving – one step	4	Number – addition and subtraction	• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
		• Problem solving – comparison	4	Number – addition and subtraction	• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
		• Problem solving – two steps	4	Number – addition and subtraction	• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
		• Problem solving – multi-step problems	4	Number – addition and subtraction	• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
	Unit 4, Measure – area	• What is area?	4	Measurement	• Find the area of rectilinear shapes by counting squares.
		• Measure area using squares	4	Measurement	• Find the area of rectilinear shapes by counting squares.
		• Count squares	4	Measurement	• Find the area of rectilinear shapes by counting squares.
		• Make shapes	4	Measurement	• Find the area of rectilinear shapes by counting squares.
		• Compare area	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
	Unit 5, Multiplication and division (1)	• Multiples of 3	4	Number – multiplication and division	• Recall multiplication and division facts for multiplication tables up to 12×12 .
		• Multiply and divide by 6	4	Number – multiplication and division	• Recall multiplication and division facts for multiplication tables up to 12×12 .
		• 6 times-table and division facts	4	Number – multiplication and division	• Recall multiplication and division facts for multiplication tables up to 12×12 .
		• Multiply and divide by 9	4	Number – multiplication and division	• Recall multiplication and division facts for multiplication tables up to 12×12 .

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> 9 times-table and division facts 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> The 3, 6 and 9 times-tables 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> Multiply and divide by 7 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> 7 times-table and division facts 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> 11 and 12 times-tables and division facts 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> Multiply by 1 and 0 	4	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Divide by 1 and itself 	4	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Multiply three numbers 	4	Number – multiplication and division	<ul style="list-style-type: none"> 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.
Textbook 4B	Unit 6, Multiplication and division (2)	<ul style="list-style-type: none"> Factor pairs 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations.
		<ul style="list-style-type: none"> Multiply and divide by 10 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12. 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.



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Multiply and divide by 100 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Recall multiplication and division facts for multiplication tables up to 12×12. • 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.
		<ul style="list-style-type: none"> • Related facts – multiplication 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> • Related facts – division 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Recall multiplication and division facts for multiplication tables up to 12×12.
		<ul style="list-style-type: none"> • Multiply and add 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
		<ul style="list-style-type: none"> • Informal written methods 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
		<ul style="list-style-type: none"> • Multiply 2 digits by 1 digit 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
		<ul style="list-style-type: none"> • Multiply 3 digits by 1 digit 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
		<ul style="list-style-type: none"> • Solve multiplication problems 	4	Number – multiplication and division	<ul style="list-style-type: none"> • Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Basic division 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations. 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.
		<ul style="list-style-type: none"> Division and remainders 	4	Number – multiplication and division	<ul style="list-style-type: none"> Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. 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.
		<ul style="list-style-type: none"> Divide 2-digit numbers 	4	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Divide 3-digit numbers 	4	Number – multiplication and division	<ul style="list-style-type: none"> 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.
		<ul style="list-style-type: none"> Correspondence problems 	4	Number – multiplication and division	<ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations. Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Efficient multiplication 	4	Number – multiplication and division	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. Recognise and use factor pairs and commutativity in mental calculations.
	Unit 7, Length and perimeter	<ul style="list-style-type: none"> Measure in km and m 	4	Measurement	<ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute].
		<ul style="list-style-type: none"> Perimeter on a grid 	4	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
		<ul style="list-style-type: none"> Perimeter of a rectangle 	4	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
		<ul style="list-style-type: none"> Perimeter of rectilinear shapes 	4	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
		<ul style="list-style-type: none"> Find missing lengths in rectilinear shapes 	4	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
		<ul style="list-style-type: none"> Perimeter of polygons 	4	Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
	Unit 8, Fractions (1)	<ul style="list-style-type: none"> Count beyond 1 	4	Number – fractions	<ul style="list-style-type: none"> Non-statutory guidance: They practise counting using simple fractions and decimals, both forwards and backwards.
			3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		● Partition a mixed number	4	Number – fractions	● Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear number system.
			3	Number – fractions	● Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
		● Number lines with mixed numbers	4	Number – fractions	● Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear number system.
			3	Number – fractions	● Compare and order unit fractions, and fractions with the same denominators.
		● Compare and order mixed numbers	4	Number – fractions	● Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear number system.
			3	Number – fractions	● Compare and order unit fractions, and fractions with the same denominators.
		● Convert mixed numbers to improper fractions	4	Number – fractions	● Ready to progress criteria (4F–2): Convert mixed numbers to improper fractions and vice versa.
			3	Number – fractions	● Recognise and show, using diagrams, equivalent fractions with small denominators.
		● Convert improper fractions to mixed numbers	4	Number – fractions	● Ready to progress criteria (4F–2): Convert mixed numbers to improper fractions and vice versa
			3	Number – fractions	● Recognise and show, using diagrams, equivalent fractions with small denominators.
		● Equivalent fractions	4	Number – fractions	● Recognise and show, using diagrams, families of common equivalent fractions.
			3	Number – fractions	● Compare and order unit fractions, and fractions with the same denominators.



Power Maths Year 4			National curriculum programmes of study			
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:	
		<ul style="list-style-type: none"> Equivalent fraction families 	4	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, families of common equivalent fractions. 	
			3	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators. 	
		<ul style="list-style-type: none"> Simplify fractions 	4	Number – fractions	<ul style="list-style-type: none"> Recognise and show, using diagrams, families of common equivalent fractions. 	
			3	Number – fractions	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. 	
	Unit 9, Fractions (2)		<ul style="list-style-type: none"> Add and subtract two or more fractions 	4	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator.
			<ul style="list-style-type: none"> Add fractions and mixed numbers 	4	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator.
			<ul style="list-style-type: none"> Subtract from mixed numbers 	4	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator.
			<ul style="list-style-type: none"> Subtract from whole amounts 	4	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator.
<ul style="list-style-type: none"> Problem solving – add and subtract fractions (1) 			4	Number – fractions	<ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	
<ul style="list-style-type: none"> Problem solving – add and subtract fractions (2) 			4	Number – fractions	<ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	
		<ul style="list-style-type: none"> Fraction of an amount 	4	Number – fractions	<ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	
					<ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Problem solving – fraction of an amount 	4	Number – fractions	<ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.
	Unit 10, Decimals (1)	<ul style="list-style-type: none"> Tenths as fractions 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Tenths as decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Tenths on a place value grid 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Tenths on a number line (1) 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Tenths on a number line (2) 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Divide 1 digit by 10 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
		<ul style="list-style-type: none"> Divide 2 digits by 10 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
		<ul style="list-style-type: none"> Hundredths as fractions 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Hundredths as decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Hundredths on a place value grid 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Divide 1 or 2 digits by 100 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
		<ul style="list-style-type: none"> Divide by 10 and 100 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
Textbook 4C	Unit 11, Decimals (2)	<ul style="list-style-type: none"> Make a whole 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Partition decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Flexibly partition decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths.
		<ul style="list-style-type: none"> Compare decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare numbers with the same number of decimal places up to two decimal places.
		<ul style="list-style-type: none"> Order decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare numbers with the same number of decimal places up to two decimal places.
		<ul style="list-style-type: none"> Round to the nearest whole 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Round decimals with one decimal place to the nearest whole number.
		<ul style="list-style-type: none"> Halves and quarters as decimals 	4	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.

Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
	Unit 12, Money	• Write money using decimals	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
		• Convert between pounds and pence	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
		• Compare amounts of money	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
		• Estimate with money	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
		• Calculate with money	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
		• Solve problems with money	4	Measurement	• Estimate, compare and calculate different measures, including money in pounds and pence.
	Unit 13, Time	• Years, months, weeks and days	4	Measurement	• Convert between different units of measure [for example, kilometre to metre; hour to minute].
		• Hours, minutes and seconds	4	Measurement	• Convert between different units of measure [for example, kilometre to metre; hour to minute].
		• Convert between analogue and digital times	4	Measurement	• Convert between different units of measure [for example, kilometre to metre; hour to minute].
		• Convert to the 24-hour clock	4	Measurement	• Convert between different units of measure [for example, kilometre to metre; hour to minute].
		• Problem solving – converting units of time	4	Measurement	• Convert between different units of measure [for example, kilometre to metre; hour to minute].

Power Maths Year 4			National curriculum programmes of study			
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:	
	Unit 14, Geometry – angles and 2D shapes	• Identify angles	4	Geometry – properties of shapes	• Identify acute and obtuse angles and compare and order angles up to two right angles by size.	
		• Compare and order angles	4	Geometry – properties of shapes	• Identify acute and obtuse angles and compare and order angles up to two right angles by size.	
		• Triangles	4	Geometry – properties of shapes	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	
		• Quadrilaterals	4	Geometry – properties of shapes	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	
		• Polygons	4	Geometry – properties of shapes	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	
		• Reason about polygons	4	Geometry – properties of shapes	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	
		• Lines of symmetry	4	Geometry – properties of shapes	• Identify lines of symmetry in 2D shapes presented in different orientations.	
		• Complete a symmetric figure	4	Geometry – properties of shapes	• Complete a simple symmetric figure with respect to a specific line of symmetry.	
		Unit 15, Statistics	• Interpret charts	4	Statistics	• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
			• Solve problems with charts (1)	4	Statistics	• Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
• Solve problems with charts (2)	4		Statistics	• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.		



Power Maths Year 4			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Interpret line graphs (1) 	4	Statistics	<ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
		<ul style="list-style-type: none"> Interpret line graphs (2) 	4	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
		<ul style="list-style-type: none"> Draw line graphs 	4	Statistics	<ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
	Unit 16, Geometry – position and direction	<ul style="list-style-type: none"> Describe position 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant.
		<ul style="list-style-type: none"> Describe position using coordinates 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant.
		<ul style="list-style-type: none"> Plot coordinates 	4	Geometry – position and direction	<ul style="list-style-type: none"> Plot specified points and draw sides to complete a given polygon. Describe positions on a 2D grid as coordinates in the first quadrant.
		<ul style="list-style-type: none"> Draw 2D shapes on a grid 	4	Geometry – position and direction	<ul style="list-style-type: none"> Plot specified points and draw sides to complete a given polygon.
		<ul style="list-style-type: none"> Translate on a grid 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe movements between positions as translations of a given unit to the left/right and up/down.
		<ul style="list-style-type: none"> Describe translation on a grid 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe movements between positions as translations of a given unit to the left/right and up/down.



Year 5

Power Maths Year 5			National curriculum programmes of study			
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:	
Textbook 5A	Unit 1, Place value within 1,000,000 (1)	● Roman numerals	5	Number – number and place value	● Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
		● Numbers to 10,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
		● Numbers to 100,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
		● Numbers to 1,000,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
		● Read and write 5- and 6-digit numbers	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
		● Powers of 10	5	Number – number and place value	● Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.	
		● 10/100/1,000/10,000/100,000 more or less	5	Number – number and place value	● Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.	
		● Partition numbers to 1,000,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
		Unit 2, Place value within 1,000,000 (2)	● Number line to 1,000,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
			● Compare and order numbers to 100,000	5	Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
● Compare and order numbers to 1,000,000	5		Number – number and place value	● Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.		



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Round numbers to the nearest 100,000 	5	Number – number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.
		<ul style="list-style-type: none"> Round numbers to the nearest 10,000 	5	Number – number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.
		<ul style="list-style-type: none"> Round numbers to the nearest 10, 100 and 1,000 	5	Number – number and place value	<ul style="list-style-type: none"> Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.
	Unit 3, Addition and subtraction	<ul style="list-style-type: none"> Mental strategies (addition) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers.
		<ul style="list-style-type: none"> Mental strategies (subtraction) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers.
		<ul style="list-style-type: none"> Add whole numbers with more than 4 digits (1) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
		<ul style="list-style-type: none"> Add whole numbers with more than 4 digits (2) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
		<ul style="list-style-type: none"> Subtract whole numbers with more than 4 digits (1) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
		<ul style="list-style-type: none"> Subtract whole numbers with more than 4 digits (2) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
		<ul style="list-style-type: none"> Round to check answers 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		<ul style="list-style-type: none"> Inverse operations (addition and subtraction) 	4	Number – addition and subtraction	<ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Multi-step addition and subtraction problems (1) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> Multi-step addition and subtraction problems (2) 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> Solve missing number problems 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> Solve comparison problems 	5	Number – addition and subtraction	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
	Unit 4, Multiplication and division (1)	<ul style="list-style-type: none"> Multiples 	5	Number – multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		<ul style="list-style-type: none"> Common multiples 	5	Number – multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		<ul style="list-style-type: none"> Factors 	5	Number – multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		<ul style="list-style-type: none"> Common factors 	5	Number – multiplication and division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
		<ul style="list-style-type: none"> Prime numbers 	5	Number – multiplication and division	<ul style="list-style-type: none"> Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
		<ul style="list-style-type: none"> Square numbers 	5	Number – multiplication and division	<ul style="list-style-type: none"> Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).
		<ul style="list-style-type: none"> Cube numbers 	5	Number – multiplication and division	<ul style="list-style-type: none"> Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		• Multiply by 10, 100 and 1,000	5	Number – multiplication and division	• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
		• Divide by 10, 100 and 1,000	5	Number – multiplication and division	• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
		• Multiples of 10, 100 and 1,000	5	Number – multiplication and division	• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
	Unit 5, Fractions (1)	• Equivalent fractions	5	Number – fractions (including decimals and percentages)	• Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		• Equivalent fractions – unit and non-unit fractions	5	Number – fractions (including decimals and percentages)	• Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		• Equivalent fractions – families of equivalent fractions	5	Number – fractions (including decimals and percentages)	• Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
		• Improper fractions to mixed numbers	5	Number – fractions (including decimals and percentages)	• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		• Mixed numbers to improper fractions	5	Number – fractions (including decimals and percentages)	• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		• Compare fractions less than 1	5	Number – fractions (including decimals and percentages)	• Compare and order fractions whose denominators are all multiples of the same number.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Order fractions less than 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number.
		<ul style="list-style-type: none"> Compare and order fractions greater than 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number.
	Unit 6, Fractions (2)	<ul style="list-style-type: none"> Add and subtract fractions 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		<ul style="list-style-type: none"> Add fractions within 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		<ul style="list-style-type: none"> Add fractions with a total greater than 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Add to a mixed number 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Add two mixed numbers 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Subtract fractions within 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Subtract from a mixed number 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Subtract from a mixed number – breaking the whole 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Subtract two mixed numbers 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Solve fraction problems 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
		<ul style="list-style-type: none"> Solve multi-step fraction problems 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
Textbook 5B	Unit 7, Multiplication and division (2)	<ul style="list-style-type: none"> Multiply a number up to 4 digits by a 1-digit number 	5	Number – multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		<ul style="list-style-type: none"> Multiply 2-digit numbers (area model) 	5	Number – multiplication and division	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. Multiply and divide numbers mentally drawing upon known facts.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Multiply 2-digit numbers 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. • Multiply and divide numbers mentally drawing upon known facts.
		<ul style="list-style-type: none"> • Multiply a 3-digit number by a 2-digit number 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		<ul style="list-style-type: none"> • Multiply a 4-digit number by a 2-digit number 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
		<ul style="list-style-type: none"> • Divide a number up to 4 digits by 1-digit number (1) 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		<ul style="list-style-type: none"> • Divide a number up to 4 digits by 1-digit number (2) 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		<ul style="list-style-type: none"> • Divide with remainders 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
		<ul style="list-style-type: none"> • Efficient division 	5	Number – multiplication and division	<ul style="list-style-type: none"> • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Solve problems with multiplication and division 	5	Number – multiplication and division	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
	Unit 8, Fractions (3)	<ul style="list-style-type: none"> Multiply unit fractions by an integer 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Multiply non-unit fractions by an integer 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Multiply mixed numbers by integers (1) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Multiply mixed numbers by integers (2) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
		<ul style="list-style-type: none"> Fraction of an amount 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		<ul style="list-style-type: none"> Finding the whole 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		<ul style="list-style-type: none"> Using fractions as operators 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
	Unit 9, Decimals and percentages	• Write decimals up to 2 decimal places – less than 1	5	Number – fractions (including decimals and percentages)	• Read, write, order and compare numbers with up to three decimal places.
		• Write decimals up to 2 decimals places – greater than 1	5	Number – fractions (including decimals and percentages)	• Read, write, order and compare numbers with up to three decimal places.
		• Equivalent fractions and decimals – tenths	5	Number – fractions (including decimals and percentages)	• Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].
		• Equivalent fractions and decimals – hundredths	5	Number – fractions (including decimals and percentages)	• Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].
		• Equivalent fractions and decimals	5	Number – fractions (including decimals and percentages)	• Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].
		• Thousandths as fractions	5	Number – fractions (including decimals and percentages)	• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		• Thousandths as decimals	5	Number – fractions (including decimals and percentages)	• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		• Thousandths on a place value grid	5	Number – fractions (including decimals and percentages)	• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
		• Compare and order decimals – same number of decimal places	5	Number – fractions (including decimals and percentages)	• Read, write, order and compare numbers with up to three decimal places.
		• Compare and order any decimals with up to 3 decimal places	5	Number – fractions (including decimals and percentages)	• Read, write, order and compare numbers with up to three decimal places.
		• Round to the nearest whole number	5	Number – fractions (including decimals and percentages)	• Round decimals with two decimal places to the nearest whole number and to one decimal place.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		● Round to one decimal place	5	Number – fractions (including decimals and percentages)	● Round decimals with two decimal places to the nearest whole number and to one decimal place.
		● Understand percentages	5	Number – fractions (including decimals and percentages)	● Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.
		● Percentages as fractions and decimals	5	Number – fractions (including decimals and percentages)	● Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal.
		● Equivalent fractions, decimals and percentages	5	Number – fractions (including decimals and percentages)	● Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal. ● Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.
	Unit 10, Measure – perimeter and area	● Perimeter of rectangles	5	Measurement	● Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		● Perimeter of rectilinear shapes (1)	5	Measurement	● Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		● Perimeter of rectilinear shapes (2)	5	Measurement	● Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
		● Perimeter of polygons	5	Measurement	● Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Area of rectangles (1) 	5	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		<ul style="list-style-type: none"> Area of rectangles (2) 	5	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		<ul style="list-style-type: none"> Area of compound shapes 	5	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		<ul style="list-style-type: none"> Estimate area 	5	Measurement	<ul style="list-style-type: none"> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
	Unit 11, Graphs and tables	<ul style="list-style-type: none"> Draw line graphs 	5	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.
		<ul style="list-style-type: none"> Read and interpret line graphs (1) 	5	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.
		<ul style="list-style-type: none"> Read and interpret line graphs (2) 	5	Statistics	<ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph.

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Read and interpret tables 	5	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
		<ul style="list-style-type: none"> Two-way tables 	5	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
		<ul style="list-style-type: none"> Timetables 	5	Statistics	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables.
Textbook 5C	Unit 12, Geometry – properties of shapes	<ul style="list-style-type: none"> Understand and use degrees 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°); other multiples of 90°.
		<ul style="list-style-type: none"> Measure acute angles 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
		<ul style="list-style-type: none"> Measure angles up to 180° 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees ($^\circ$).
		<ul style="list-style-type: none"> Draw lines and angles accurately 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw given angles, and measure them in degrees ($^\circ$).
		<ul style="list-style-type: none"> Calculate angles around a point 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°); other multiples of 90°.
		<ul style="list-style-type: none"> Calculate angles on a straight line 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°); other multiples of 90°.

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Lengths and angles in shapes 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Use the properties of rectangles to deduce related facts and find missing lengths and angles.
		<ul style="list-style-type: none"> Regular and irregular polygons 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
		<ul style="list-style-type: none"> Parallel lines 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> Perpendicular lines 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> Investigate lines 	3	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
		<ul style="list-style-type: none"> 3D shapes 	5	Geometry – properties of shapes	<ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations.
	Unit 13, Geometry – position and direction	<ul style="list-style-type: none"> Read and plot coordinates 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon.
		<ul style="list-style-type: none"> Problem solving with coordinates 	4	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon.
		<ul style="list-style-type: none"> Translate shapes 	5	Geometry – position and direction	<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
		<ul style="list-style-type: none"> Translate points 	5	Geometry – position and direction	<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Reflection 	4	Geometry – position and direction	<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
		<ul style="list-style-type: none"> Reflection in horizontal and vertical lines 	5	Geometry – position and direction	<ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
	Unit 14, Decimals	<ul style="list-style-type: none"> Add and subtract decimals within 1 (1) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Add and subtract decimals within 1 (2) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Complements to 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Add and subtract decimals across 1 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Add decimals with the same number of decimal places 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Subtract decimals with the same number of decimal places 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Add decimals with a different numbers of decimal places 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> Subtract decimals with a different numbers of decimal places 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems involving number up to three decimal places.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Problem solving with decimals (1) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> • Problem solving with decimals (2) 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> • Decimal sequences 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Read, write, order and compare numbers with up to three decimal places.
		<ul style="list-style-type: none"> • Multiply by 10 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> • Multiply by 10, 100 and 1,000 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> • Divide by 10 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Solve problems involving number up to three decimal places.
		<ul style="list-style-type: none"> • Divide by 10, 100 and 1,000 	5	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Solve problems involving number up to three decimal places.
	Unit 15, Negative numbers	<ul style="list-style-type: none"> • Understand negative numbers 	5	Number – number and place value	<ul style="list-style-type: none"> • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		• Count through zero	5	Number – number and place value	• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
		• Compare and order negative numbers	5	Number – number and place value	• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
		• Find the difference	5	Number – number and place value	• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
	Unit 16, Measure – converting units	• Kilograms and kilometres	5	Measurement	• Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].
		• Millimetres and millilitres	5	Measurement	• Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].
		• Convert units of length	5	Measurement	• Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].
		• Imperial units of length	5	Measurement	• Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
		• Imperial units of mass	5	Measurement	• Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.



Power Maths Year 5			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Imperial units of capacity 	5	Measurement	<ul style="list-style-type: none"> Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
		<ul style="list-style-type: none"> Convert units of time 	5	Measurement	<ul style="list-style-type: none"> Solve problems involving converting between units of time.
		<ul style="list-style-type: none"> Timetables – calculating 	5	Measurement	<ul style="list-style-type: none"> Solve problems involving converting between units of time.
		<ul style="list-style-type: none"> Problem solving – units of measure (1) 	5	Measurement	<ul style="list-style-type: none"> Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
		<ul style="list-style-type: none"> Problem solving – units of measure (2) 	5	Measurement	<ul style="list-style-type: none"> Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
	Unit 17, Measure – volume	<ul style="list-style-type: none"> Cubic centimetres 	5	Measurement	<ul style="list-style-type: none"> Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water].
		<ul style="list-style-type: none"> Compare volumes 	5	Measurement	<ul style="list-style-type: none"> Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water].
		<ul style="list-style-type: none"> Estimate volume 	5	Measurement	<ul style="list-style-type: none"> Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water].

Year 6

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
Textbook 6A	Unit 1, Place value within 10,000,000	• Numbers to 1,000,000	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Numbers to 10,000,000	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Partition numbers to 10,000,000	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Powers of 10	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Number line to 10,000,000	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Compare and order any number	6	Number – number and place value	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Solve number and practical problems.
		• Round any number	6	Number – number and place value	<ul style="list-style-type: none"> • Round any whole number to a required degree of accuracy.
	• Negative numbers	6	Number – number and place value	<ul style="list-style-type: none"> • Use negative numbers in context, and calculate intervals across zero. 	
	Unit 2, Four operations (1)	• Add integers	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Subtract integers 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> Problem solving – addition and subtraction 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> Common factors 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers.
		<ul style="list-style-type: none"> Common multiples 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers.
		<ul style="list-style-type: none"> Rules of divisibility 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations.
		<ul style="list-style-type: none"> Primes to 100 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers.
		<ul style="list-style-type: none"> Squares and cubes 	5	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).
	Unit 3, Four operations (2)	<ul style="list-style-type: none"> Multiply by a 1-digit number 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
		<ul style="list-style-type: none"> Multiply up to a 4-digit number by a 2-digit number 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Short division 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Divide 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.
		<ul style="list-style-type: none"> Division using factors 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Identify common factors, common multiples and prime numbers. Divide 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.
		<ul style="list-style-type: none"> Divide a 3-digit number by a 2-digit number (long division) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Divide 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.
		<ul style="list-style-type: none"> Divide a 4-digit number by a 2-digit number (long division) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Divide 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. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Long division with remainders 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Divide 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. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
		<ul style="list-style-type: none"> Order of operations 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Use their knowledge of the order of operations to carry out calculations involving the four operations.
		<ul style="list-style-type: none"> Brackets 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Use their knowledge of the order of operations to carry out calculations involving the four operations.
		<ul style="list-style-type: none"> Mental calculations (1) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers.
		<ul style="list-style-type: none"> Mental calculations (2) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers.
		<ul style="list-style-type: none"> Reason from known facts 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division.
	Unit 4, Fractions (1)	<ul style="list-style-type: none"> Equivalent fractions and simplifying 	6	Number – fractions	<ul style="list-style-type: none"> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
		<ul style="list-style-type: none"> Equivalent fractions on a number line 	6	Number – fractions	<ul style="list-style-type: none"> Compare and order fractions, including fractions > 1.

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Compare and order fractions 	6	Number – fractions	<ul style="list-style-type: none"> Compare and order fractions, including fractions > 1. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
		<ul style="list-style-type: none"> Add and subtract simple fractions 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		<ul style="list-style-type: none"> Add and subtract any two fractions 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		<ul style="list-style-type: none"> Add mixed numbers 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		<ul style="list-style-type: none"> Subtract mixed numbers 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		<ul style="list-style-type: none"> Multi-step problems 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
		<ul style="list-style-type: none"> Problem solving – add and subtract fractions 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
	Unit 5, Fractions (2)	<ul style="list-style-type: none"> Multiply fractions by integers 	5	Number – fractions	<ul style="list-style-type: none"> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		<ul style="list-style-type: none"> Multiply fractions by fractions (1) 	6	Number – fractions	<ul style="list-style-type: none"> Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$].
		<ul style="list-style-type: none"> Multiply fractions by fractions (2) 	6	Number – fractions	<ul style="list-style-type: none"> Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$].



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Divide a fraction by an integer (1) 	6	Number – fractions	<ul style="list-style-type: none"> Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$].
		<ul style="list-style-type: none"> Divide a fraction by an integer (2) 	6	Number – fractions	<ul style="list-style-type: none"> Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$].
		<ul style="list-style-type: none"> Divide a fraction by an integer (3) 	6	Number – fractions	<ul style="list-style-type: none"> Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$].
		<ul style="list-style-type: none"> Mixed questions with fractions 	6	Number – fractions	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$].
		<ul style="list-style-type: none"> Fraction of an amount 	6	Number – fractions	<ul style="list-style-type: none"> Use written division methods in cases where the answer has up to two decimal places.
		<ul style="list-style-type: none"> Fraction of an amount – find the whole 	6	Number – fractions	<ul style="list-style-type: none"> Use written division methods in cases where the answer has up to two decimal places.
	Unit 6, Measure – imperial and metric measures	<ul style="list-style-type: none"> Metric measures 	6	Measurement	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Convert metric measures 	6	Measurement	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
		<ul style="list-style-type: none"> Calculate with metric measures 	6	Measurement	<ul style="list-style-type: none"> Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
		<ul style="list-style-type: none"> Miles and kilometres 	6	Measurement	<ul style="list-style-type: none"> Convert between miles and kilometres.
		<ul style="list-style-type: none"> Imperial measures 	6	Measurement	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
Textbook 6B	Unit 7, Ratio and proportion	<ul style="list-style-type: none"> Use ratio language 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
		<ul style="list-style-type: none"> Introduce the ratio symbol 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
		<ul style="list-style-type: none"> Use ratio 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Scale drawing 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving similar shapes where the scale factor is known or can be found.
		<ul style="list-style-type: none"> Scale factors 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving similar shapes where the scale factor is known or can be found.
		<ul style="list-style-type: none"> Similar shapes 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving similar shapes where the scale factor is known or can be found.
		<ul style="list-style-type: none"> Ratio problems 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
		<ul style="list-style-type: none"> Problem solving – ratio and proportion (1) 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
		<ul style="list-style-type: none"> Problem solving – ratio and proportion (2) 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
	Unit 8, Algebra	<ul style="list-style-type: none"> Find a rule – one step 	6	Algebra	<ul style="list-style-type: none"> Generate and describe linear number sequences.
		<ul style="list-style-type: none"> Find a rule – two steps 	6	Algebra	<ul style="list-style-type: none"> Generate and describe linear number sequences.
		<ul style="list-style-type: none"> Form expressions 	6	Algebra	<ul style="list-style-type: none"> Generate and describe linear number sequences.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Substitution (1) 	6	Algebra	<ul style="list-style-type: none"> Express missing number problems algebraically. Generate and describe linear number sequences.
		<ul style="list-style-type: none"> Substitution (2) 	6	Algebra	<ul style="list-style-type: none"> Express missing number problems algebraically. Generate and describe linear number sequences.
		<ul style="list-style-type: none"> Formulae 	6	Algebra	<ul style="list-style-type: none"> Use simple formulae.
		<ul style="list-style-type: none"> Form and solve equations 	6	Algebra	<ul style="list-style-type: none"> Express missing number problems algebraically.
		<ul style="list-style-type: none"> Solve one-step equations 	6	Algebra	<ul style="list-style-type: none"> Express missing number problems algebraically.
		<ul style="list-style-type: none"> Solve two-step equations 	6	Algebra	<ul style="list-style-type: none"> Express missing number problems algebraically.
		<ul style="list-style-type: none"> Find pairs of values 	6	Algebra	<ul style="list-style-type: none"> Find pairs of numbers that satisfy an equation with two unknowns.
		<ul style="list-style-type: none"> Solve problems with two unknowns 	6	Algebra	<ul style="list-style-type: none"> Enumerate possibilities of combinations of two variables. Find pairs of numbers that satisfy an equation with two unknowns.
	Unit 9, Decimals	<ul style="list-style-type: none"> Place value to 3 decimal places 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Round decimals 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.
		<ul style="list-style-type: none"> Add and subtract decimals 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Solve problems which require answers to be rounded to specified degrees of accuracy.
		<ul style="list-style-type: none"> Multiply by 10, 100 and 1,000 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
		<ul style="list-style-type: none"> Divide by 10, 100 and 1,000 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
		<ul style="list-style-type: none"> Multiply decimals by integers 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Multiply one-digit numbers with up to two decimal places by whole numbers.
		<ul style="list-style-type: none"> Divide decimals by integers 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Fractions to decimals 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
		<ul style="list-style-type: none"> Fractions as division 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$].
	Unit 10, Percentages	<ul style="list-style-type: none"> Understand percentages 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Fractions to percentages 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Equivalent fractions, decimals and percentages 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Order fractions, decimals and percentages 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Compare and order fractions, including fractions > 1. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Simple percentage of an amount 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
				Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Percentage of an amount – 1% 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
				Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Percentages of an amount 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
				Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
<ul style="list-style-type: none"> Percentages (missing values) 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Multiply one-digit numbers with up to two decimal places by whole numbers. 		

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
	Unit 11, Measure – perimeter, area and volume	<ul style="list-style-type: none"> • Shapes – same area 	6	Measurement	<ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa.
		<ul style="list-style-type: none"> • Area and perimeter 	6	Measurement	<ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa.
		<ul style="list-style-type: none"> • Area and perimeter – missing lengths 	6	Measurement	<ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa.
		<ul style="list-style-type: none"> • Area of a triangle – counting squares 	6	Measurement	<ul style="list-style-type: none"> • Calculate the area of parallelograms and triangles.
		<ul style="list-style-type: none"> • Area of a right-angled triangle 	6	Measurement	<ul style="list-style-type: none"> • Calculate the area of parallelograms and triangles.
		<ul style="list-style-type: none"> • Area of any triangle 	6	Measurement	<ul style="list-style-type: none"> • Calculate the area of parallelograms and triangles.
		<ul style="list-style-type: none"> • Area of a parallelogram 	6	Measurement	<ul style="list-style-type: none"> • Recognise when it is possible to use formulae for area and volume of shapes. • Calculate the area of parallelograms and triangles.
		<ul style="list-style-type: none"> • Problem solving – area 	6	Measurement	<ul style="list-style-type: none"> • Calculate the area of parallelograms and triangles.
		<ul style="list-style-type: none"> • Problem solving – perimeter 	6	Measurement	<ul style="list-style-type: none"> • Recognise when it is possible to use formulae for area and volume of shapes.
		<ul style="list-style-type: none"> • Volume – count cubes 	6	Measurement	<ul style="list-style-type: none"> • Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]. • Recognise when it is possible to use formulae for area and volume of shapes.

Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Volume of a cuboid 	6	Measurement	<ul style="list-style-type: none"> Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]. Recognise when it is possible to use formulae for area and volume of shapes.
Textbook 6C	Unit 12, Statistics	<ul style="list-style-type: none"> Interpret line graphs 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.
		<ul style="list-style-type: none"> Draw line graphs 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.
		<ul style="list-style-type: none"> Advanced bar charts 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
		<ul style="list-style-type: none"> Understand and complete pie charts 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.
		<ul style="list-style-type: none"> Read and interpret pie charts 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.
		<ul style="list-style-type: none"> Pie charts and fractions (1) 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.
		<ul style="list-style-type: none"> Pie charts and fractions (2) 	6	Statistics	<ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Pie charts and percentages 	6	Statistics	<ul style="list-style-type: none"> • Interpret and construct pie charts and line graphs and use these to solve problems. • Non-statutory guidance: Pupils connect their work on angles, fractions and percentages to the interpretation of pie charts.
		<ul style="list-style-type: none"> • Introduction to the mean 	6	Statistics	<ul style="list-style-type: none"> • Calculate and interpret the mean as an average.
		<ul style="list-style-type: none"> • Calculate the mean 	6	Statistics	<ul style="list-style-type: none"> • Calculate and interpret the mean as an average.
		<ul style="list-style-type: none"> • Problem solving – mean 	6	Statistics	<ul style="list-style-type: none"> • Calculate and interpret the mean as an average.
	Unit 13, Geometry – properties of shapes	<ul style="list-style-type: none"> • Measure and classify angles 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
		<ul style="list-style-type: none"> • Vertically opposite angles 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
		<ul style="list-style-type: none"> • Angles in a triangle 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. • Draw 2D shapes using given dimensions and angles.
		<ul style="list-style-type: none"> • Angles in a triangle – missing angles 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Angles in a triangle – special cases 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
		<ul style="list-style-type: none"> Angles in quadrilaterals 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
		<ul style="list-style-type: none"> Angles in polygons 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
		<ul style="list-style-type: none"> Circles 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.
		<ul style="list-style-type: none"> Parts of a circle 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.
		<ul style="list-style-type: none"> Draw shapes accurately 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Draw 2D shapes using given dimensions and angles.
		<ul style="list-style-type: none"> Nets of 3D shapes (1) 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Recognise, describe and build simple 3D shapes, including making nets.
		<ul style="list-style-type: none"> Nets of 3D shapes (2) 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Recognise, describe and build simple 3D shapes, including making nets.
	Unit 14, Geometry – position and direction	<ul style="list-style-type: none"> The first quadrant 	6	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on the full coordinate grid (all four quadrants).
		<ul style="list-style-type: none"> Read and plot points in four quadrants 	6	Geometry – position and direction	<ul style="list-style-type: none"> Describe positions on the full coordinate grid (all four quadrants).
		<ul style="list-style-type: none"> Translations 	6	Geometry – position and direction	<ul style="list-style-type: none"> Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Reflections 	6	Geometry – position and direction	<ul style="list-style-type: none"> • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
		<ul style="list-style-type: none"> • Solve problems with coordinates 	6	Geometry – position and direction	<ul style="list-style-type: none"> • Describe positions on the full coordinate grid (all four quadrants). • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
	Unit 15, Problem solving	<ul style="list-style-type: none"> • Problem solving – place value 	6	Number – number and place value	<ul style="list-style-type: none"> • Solve number and practical problems that involve all of the above.
		<ul style="list-style-type: none"> • Problem solving – negative numbers 	6	Number – number and place value	<ul style="list-style-type: none"> • Solve number and practical problems that involve all of the above.
		<ul style="list-style-type: none"> • Problem solving – addition and subtraction 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		<ul style="list-style-type: none"> • Problem solving – four operations (1) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> • Solve problems involving addition, subtraction, multiplication and division. • Use their knowledge of the order of operations to carry out calculations involving the four operations.
		<ul style="list-style-type: none"> • Problem solving – four operations (2) 	6	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> • Solve problems involving addition, subtraction, multiplication and division.
		<ul style="list-style-type: none"> • Problem solving – fractions 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.



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Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> Problem solving – decimals 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Problem solving – percentages 	6	Number – fractions (including decimals and percentages)	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		<ul style="list-style-type: none"> Problem solving – ratio and proportion 	6	Ratio and proportion	<ul style="list-style-type: none"> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
		<ul style="list-style-type: none"> Problem solving – time (1) 	6	Measurement	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
		<ul style="list-style-type: none"> Problem solving – time (2) 	6	Measurement	<ul style="list-style-type: none"> Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
		<ul style="list-style-type: none"> Problem solving – position and direction 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> Describe positions on the full coordinate grid (all four quadrants).



Power Maths Year 6			National curriculum programmes of study		
Term	Unit	Lesson titles	Year	Domain	Pupils should be taught to:
		<ul style="list-style-type: none"> • Problem solving – properties of shapes (1) 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
		<ul style="list-style-type: none"> • Problem solving – properties of shapes (2) 	6	Geometry – properties of shapes	<ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.