

# Power Maths Year 5, yearly overview

Textbook	Strand	Unit		Number of Lessons
Textbook A / Practice Book A (Term 1)	Number – number and place value	1	Place value within 100,000	8
	Number – number and place value	2	Place value within 1,000,000	8
	Number – addition and subtraction	3	Addition and subtraction	10
	Statistics	4	Graphs and tables	5
	Number – multiplication and division	5	Multiplication and division (1)	10
	Measurement	6	Measure – area and perimeter	7
Textbook B / Practice Book B (Term 2)	Number – multiplication and division	7	Multiplication and division (2)	11
	Number – fractions (including decimals and percentages)	8	Fractions (1)	8
	Number – fractions (including decimals and percentages)	9	Fractions (2)	12
	Number – fractions (including decimals and percentages)	10	Fractions (3)	7
	Number – fractions (including decimals and percentages)	11	Decimals and percentages	12
Textbook C / Practice Book C (Term 3)	Number – fractions (including decimals and percentages)	12	Decimals	15
	Geometry – properties of shapes	13	Geometry – properties of shapes (1)	7
	Geometry – properties of shapes	14	Geometry – properties of shapes (2)	5
	Geometry – position and direction	15	Geometry – position and direction	4
	Measurement	16	Measure – converting units	10
	Measurement	17	Measure – volume and capacity	4

## Power Maths Year 5, Textbook 5A (Term I) Overview

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – number and place value		Unit 1	Place value within 100,000	1	Numbers to 10,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	
Number – number and place value		Unit 1	Place value within 100,000	2	Rounding to the nearest 10, 100 and 1,000	Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000		
Number – number and place value		Unit 1	Place value within 100,000	3	10,000s, 1,000s, 100s, 10s and 1s (1)	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 100,000	4	10,000s, 1,000s, 100s, 10s and 1s (2)	Solve number problems and practical problems that involve all of the above		
Number – number and place value		Unit 1	Place value within 100,000	5	The number line to 100,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 100,000	6	Comparing and ordering numbers to 100,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – number and place value		Unit 1	Place value within 100,000	7	Rounding numbers within 100,000	Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000		
Number – number and place value		Unit 1	Place value within 100,000	8	Roman numerals to 10,000	Read roman numerals to 1,000 (m) and recognise years written in roman numerals		
Number – number and place value		Unit 2	Place value within 1,000,000	1	100,000s, 10,000s, 1,000s, 100s, 10s and 1s (1)	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
Number – number and place value		Unit 2	Place value within 1,000,000	2	100,000s, 10,000s, 1,000s, 100s, 10s and 1s (2)	Solve number problems and practical problems that involve all of the above		
Number – number and place value		Unit 2	Place value within 1,000,000	3	Number line to 1,000,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
Number – number and place value		Unit 2	Place value within 1,000,000	4	Comparing and ordering numbers to 1,000,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
Number – number and place value		Unit 2	Place value within 1,000,000	5	Rounding numbers to a 1,000,000	Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000		
Number – number and place value		Unit 2	Place value within 1,000,000	6	Negative numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero		
Number – number and place value		Unit 2	Place value within 1,000,000	7	Counting in 10s, 100s, 1,000s, 10,000s	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000		
Number – number and place value		Unit 2	Place value within 1,000,000	8	Number sequences	Solve number problems and practical problems that involve all of the above		
Number – addition and subtraction		Unit 3	Addition and subtraction	1	Adding whole numbers with more than 4 digits (1)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		
Number – addition and subtraction		Unit 3	Addition and subtraction	2	Adding whole numbers with more than 4 digits (2)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		
Number – addition and subtraction		Unit 3	Addition and subtraction	3	Subtracting whole numbers with more than 4 digits (1)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		
Number – addition and subtraction		Unit 3	Addition and subtraction	4	Subtracting whole numbers with more than 4 digits (2)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		
Number – addition and subtraction		Unit 3	Addition and subtraction	5	Using rounding to estimate and check answers	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		
Number – addition and subtraction		Unit 3	Addition and subtraction	6	Mental addition and subtraction (1)	Add and subtract numbers mentally with increasingly large numbers		
Number – addition and subtraction		Unit 3	Addition and subtraction	7	Mental addition and subtraction (2)	Add and subtract numbers mentally with increasingly large numbers	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – addition and subtraction		Unit 3	Addition and subtraction	8	Using inverse operations	Estimate and use inverse operations to check answers to a calculation		
Number – addition and subtraction		Unit 3	Addition and subtraction	9	Problem solving – addition and subtraction (1)	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		
Number – addition and subtraction		Unit 3	Addition and subtraction	10	Problem solving – addition and subtraction (2)	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		
Statistics		Unit 4	Graphs and tables	1	Interpreting tables	Complete, read and interpret information in tables, including timetables		
Statistics		Unit 4	Graphs and tables	2	Two-way tables	Complete, read and interpret information in tables, including timetables		
Statistics		Unit 4	Graphs and tables	3	Interpreting line graphs (1)	Solve comparison, sum and difference problems using information presented in a line graph		
Statistics		Unit 4	Graphs and tables	4	Interpreting line graphs (2)	Solve comparison, sum and difference problems using information presented in a line graph		
Statistics		Unit 4	Graphs and tables	5	Drawing line graphs	Solve comparison, sum and difference problems using information presented in a line graph		
Number – multiplication and division		Unit 5	Multiplication and division (1)	1	Multiples	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	
Number – multiplication and division		Unit 5	Multiplication and division (1)	2	Factors	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers		
Number – multiplication and division		Unit 5	Multiplication and division (1)	3	Prime numbers	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Establish whether a number up to 100 is prime and recall prime numbers up to 19	
Number – multiplication and division		Unit 5	Multiplication and division (1)	4	Using factors	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes		
Number – multiplication and division		Unit 5	Multiplication and division (1)	5	Squares	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	
Number – multiplication and division		Unit 5	Multiplication and division (1)	6	Cubes	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
Number – multiplication and division		Unit 5	Multiplication and division (1)	7	Inverse operations	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates		

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – multiplication and division		Unit 5	Multiplication and division (1)	8	Multiplying whole numbers by 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000		
Number – multiplication and division		Unit 5	Multiplication and division (1)	9	Dividing whole numbers by 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	
Number – multiplication and division		Unit 5	Multiplication and division (1)	10	Multiplying and dividing by multiples of 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000		
Measurement		Unit 6	Measure – area and perimeter	1	Measuring perimeter	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		
Measurement		Unit 6	Measure – area and perimeter	2	Calculating perimeter (1)	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		
Measurement		Unit 6	Measure – area and perimeter	3	Calculating perimeter (2)	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		
Measurement		Unit 6	Measure – area and perimeter	4	Calculating area (1)	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes		
Measurement		Unit 6	Measure – area and perimeter	5	Calculating area (2)	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes		
Measurement		Unit 6	Measure – area and perimeter	6	Comparing area	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes		
Measurement		Unit 6	Measure – area and perimeter	7	Estimating area	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes		

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	Number – addition and subtraction	3	Addition and subtraction	10
	Statistics	4	Graphs and tables	5
	Number – multiplication and division	5	Multiplication and division (1)	10
	Measurement	6	Measure – area and perimeter	7
Textbook B / Practice Book B  (Term 2)	Number – multiplication and division	7	Multiplication and division (2)	11
	Number – fractions (including decimals and percentages)	8	Fractions (1)	8
	Number – fractions (including decimals and percentages)	9	Fractions (2)	12
	Number – fractions (including decimals and percentages)	10	Fractions (3)	7
	Number – fractions (including decimals and percentages)	11	Decimals and percentages	12
Textbook C / Practice Book C  (Term 3)	Number – fractions (including decimals and percentages)	12	Decimals	15
	Geometry – properties of shapes	13	Geometry – properties of shapes (1)	7
	Geometry – properties of shapes	14	Geometry – properties of shapes (2)	5
	Geometry – position and direction	15	Geometry – position and direction	4
	Measurement	16	Measure – converting units	10
	Measurement	17	Measure – volume and capacity	4

## Power Maths Year 5, Textbook 5B (Term 2) Overview

Strand 1	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – multiplication and division	Unit 7	Multiplication and division (2)	1	Multiplying numbers up to 4 digits by a 1-digit number	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	2	Multiplying 2-digit numbers (1)	Multiply and divide numbers mentally drawing upon known facts	
Number – multiplication and division	Unit 7	Multiplication and division (2)	3	Multiplying 2-digit numbers (2)	Multiply and divide numbers mentally drawing upon known facts	
Number – multiplication and division	Unit 7	Multiplication and division (2)	4	Multiplying 2-digit numbers (3)	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	5	Multiplying a 3-digit number by a 2-digit number	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	6	Multiplying a 4-digit number by a 2-digit number	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	7	Dividing up to a 4-digit number by a 1-digit number (1)	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	8	Dividing up to a 4-digit number by a 1-digit number (2)	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	

Strand 1	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – multiplication and division	Unit 7	Multiplication and division (2)	9	Division with remainders (1)	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	10	Division with remainders (2)	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	
Number – multiplication and division	Unit 7	Multiplication and division (2)	11	Problem solving – division with remainders	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	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	1	Equivalent fractions	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	2	Converting improper fractions to mixed numbers	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	3	Converting mixed numbers to improper fractions	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	4	Number sequences	Compare and order fractions whose denominators are all multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	5	Comparing and ordering fractions (1)	Compare and order fractions whose denominators are all multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	6	Comparing and ordering fractions (2)	Compare and order fractions whose denominators are all 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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	7	Fractions as division (1)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]	
Number – fractions (including decimals and percentages)	Unit 8	Fractions (1)	8	Fractions as division (2)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]	
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	1	Adding and subtracting fractions with the same denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	2	Adding and subtracting fractions (1)	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	3	Adding and subtracting fractions (2)	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	4	Adding fractions (1)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	5	Adding fractions (2)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]

Strand 1	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	6	Adding fractions (3)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	7	Subtracting fractions (1)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	8	Subtracting fractions (2)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	9	Subtracting fractions (3)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	10	Subtracting fractions (4)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	11	Problem solving – mixed word problems (1)	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 9	Fractions (2)	12	Problem solving – mixed word problems (2)	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	1	Multiplying fractions (1)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	2	Multiplying fractions (2)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	3	Multiplying fractions (3)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	4	Multiplying fractions (4)	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	5	Calculating fractions of amounts	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	6	Using fractions as operators	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]
Number – fractions (including decimals and percentages)	Unit 10	Fractions (3)	7	Problem solving – mixed word problems	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	1	Writing decimals (1)	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	2	Writing decimals (2)	Read, write, order and compare numbers with up to three decimal places	

Strand 1	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	3	Decimals as fractions (1)	Read and write decimal numbers as fractions [for example, $= \frac{71}{100}$ ]	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	4	Decimals as fractions (2)	Read and write decimal numbers as fractions [for example, $= \frac{71}{100}$ ]	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	5	Understanding thousandths	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	6	Writing thousandths as decimals	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	7	Ordering and comparing decimals (1)	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	8	Ordering and comparing decimals (2)	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	9	Rounding decimals	Round decimals with two decimal places to the nearest whole number and to one decimal place	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	10	Understanding 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	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	11	Percentages as fractions and decimals	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	
Number – fractions (including decimals and percentages)	Unit 11	Decimals and percentages	12	Equivalent fractions, decimals and percentages	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	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths



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Textbook A / Practice Book A (Term 1)	Number – number and place value	1	Place value within 100,000	8
	Number – number and place value	2	Place value within 1,000,000	8
	Number – addition and subtraction	3	Addition and subtraction	10
	Statistics	4	Graphs and tables	5
	Number – multiplication and division	5	Multiplication and division (1)	10
	Measurement	6	Measure – area and perimeter	7
Textbook B / Practice Book B (Term 2)	Number – multiplication and division	7	Multiplication and division (2)	11
	Number – fractions (including decimals and percentages)	8	Fractions (1)	8
	Number – fractions (including decimals and percentages)	9	Fractions (2)	12
	Number – fractions (including decimals and percentages)	10	Fractions (3)	7
	Number – fractions (including decimals and percentages)	11	Decimals and percentages	12
Textbook C / Practice Book C (Term 3)	Number – fractions (including decimals and percentages)	12	Decimals	15
	Geometry – properties of shapes	13	Geometry – properties of shapes (1)	7
	Geometry – properties of shapes	14	Geometry – properties of shapes (2)	5
	Geometry – position and direction	15	Geometry – position and direction	4
	Measurement	16	Measure – converting units	10
	Measurement	17	Measure – volume and capacity	4

## Power Maths Year 5, Textbook 5C (Term 3) Overview

Strand 1	Strand 2	Unit	Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3	NC Objective 3
Number – fractions (including decimals and percentages)		Unit 12	Decimals	1	Adding and subtracting decimals (1)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	2	Adding and subtracting decimals (2)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	3	Adding and subtracting decimals (3)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	4	Adding and subtracting decimals (4)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	5	Adding and subtracting decimals (5)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	6	Adding and subtracting decimals (6)	Solve problems involving number up to three decimal places		

Strand 1	Strand 2	Unit	Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3	NC Objective 3
Number – fractions (including decimals and percentages)		Unit 12	Decimals	7	Adding and subtracting decimals (7)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	8	Adding and subtracting decimals (8)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	9	Decimal sequences	Read, write, order and compare numbers with up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	10	Problem solving – decimals (1)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	11	Problem solving – decimals (2)	Solve problems involving number up to three decimal places		
Number – fractions (including decimals and percentages)		Unit 12	Decimals	12	Multiplying decimals by 10	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)		Unit 12	Decimals	13	Multiplying decimals by 10, 100 and 1,000	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)		Unit 12	Decimals	14	Dividing decimals by 10	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)		Unit 12	Decimals	15	Dividing decimals by 10, 100 and 1,000	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Solve problems involving number up to three decimal places	
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	1	Measuring angles in degrees	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	2	Measuring with a protractor (1)	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	Draw given angles, and measure them in degrees (°)	
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	3	Measuring with a protractor (2)	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	Draw given angles, and measure them in degrees (°)
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	4	Drawing lines and angles accurately	Draw given angles, and measure them in degrees (°)		
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	5	Calculating angles on a straight line	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°		
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	6	Calculating angles around a point	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°		

Strand 1	Strand 2	Unit	Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3	NC Objective 3
Geometry – properties of shapes		Unit 13	Geometry – properties of shapes (1)	7	Calculating lengths and angles in shapes	Use the properties of rectangles to deduce related facts and find missing lengths and angles		
Geometry – properties of shapes		Unit 14	Geometry – properties of shapes (2)	1	Recognising and drawing parallel lines	Use the properties of rectangles to deduce related facts and find missing lengths and angles	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°	
Geometry – properties of shapes		Unit 14	Geometry – properties of shapes (2)	2	Recognising and drawing perpendicular lines	Use the properties of rectangles to deduce related facts and find missing lengths and angles	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°	
Geometry – properties of shapes		Unit 14	Geometry – properties of shapes (2)	3	Reasoning about parallel and perpendicular lines	Draw given angles, and measure them in degrees (o)	Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and <stacked fraction> $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°	
Geometry – properties of shapes		Unit 14	Geometry – properties of shapes (2)	4	Regular and irregular polygons	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles		
Geometry – properties of shapes		Unit 14	Geometry – properties of shapes (2)	5	Reasoning about 3D shapes	Identify 3D shapes, including cubes and other cuboids, from 2D representations		
Geometry – position and direction		Unit 15	Geometry – position and direction	1	Reflection	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		
Geometry – position and direction		Unit 15	Geometry – position and direction	2	Reflection with coordinates	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		
Geometry – position and direction		Unit 15	Geometry – position and direction	3	Translation	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		
Geometry – position and direction		Unit 15	Geometry – position and direction	4	Translation with coordinates	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		
Measurement		Unit 16	Measure – converting units	1	Metric units (1)	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		
Measurement		Unit 16	Measure – converting units	2	Metric units (2)	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		
Measurement		Unit 16	Measure – converting units	3	Metric units (3)	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	

Strand 1	Strand 2	Unit	Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3	NC Objective 3
Measurement		Unit 16	Measure – converting units	4	Metric units (4)	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	
Measurement		Unit 16	Measure – converting units	5	Imperial units of length	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints		
Measurement		Unit 16	Measure – converting units	6	Imperial units of mass	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints		
Measurement		Unit 16	Measure – converting units	7	Imperial units of capacity	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints		
Measurement		Unit 16	Measure – converting units	8	Converting units of time	Solve problems involving converting between units of time		
Measurement		Unit 16	Measure – converting units	9	Timetables	Solve problems involving converting between units of time		
Measurement		Unit 16	Measure – converting units	10	Problem solving – measure	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling		
Measurement		Unit 17	Measure – volume and capacity	1	What is volume?	Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]		
Measurement		Unit 17	Measure – volume and capacity	2	Comparing volumes	Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]		
Measurement		Unit 17	Measure – volume and capacity	3	Estimating volume	Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]		
Measurement		Unit 17	Measure – volume and capacity	4	Estimating capacity	Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]		