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^2) and square metres (m^2) 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^2) and square metres (m^2) 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^2) and square metres (m^2) 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^2) and square metres (m^2) and estimate the area of irregular shapes		