

Power Maths Year 6, yearly overview

Textbook	Strand	Unit		Number of Lessons
		Unit	Unit	
Textbook A / Practice Book A (Term 1)	Number – number and place value	1	Place value within 10,000,000	7
	Number – addition, subtraction, multiplication and division	2	Four operations (1)	10
	Number – addition, subtraction, multiplication and division	2	Four operations (2)	9
	Number – fractions	4	Fractions (1)	11
	Number – fractions	5	Fractions (2)	9
	Geometry – position and direction	6	Geometry – position and direction	4
Textbook B / Practice Book B (Term 2)	Number – fractions (including decimals and percentages)	7	Decimals	9
	Number – fractions (including decimals and percentages)	8	Percentages	9
	Algebra	9	Algebra	11
	Measurement	10	Measure – imperial and metric measures	5
	Measurement	11	Measure – perimeter, area and volume	11
	Ratio and proportion	12	Ratio and proportion	9
Textbook C / Practice Book C (Term 3)	Geometry – properties of shapes	13	Geometry – properties of shapes	12
	Number – number and place value	14	Problem solving	14
	Statistics	15	Statistics	10

Power Maths Year 6, Textbook 6A (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 10,000,000	1	Numbers to 1,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 10,000,000	2	Numbers to 10,000,000 (1)	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 10,000,000	3	Numbers to 10,000,000 (2)	Solve number and practical problems that involve all of the above		
Number – number and place value		Unit 1	Place value within 10,000,000	4	Number line to 10,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 10,000,000	5	Comparing and ordering numbers to 10,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit		
Number – number and place value		Unit 1	Place value within 10,000,000	6	Rounding numbers	Round any whole number to a required degree of accuracy		

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 10,000,000	7	Negative numbers	Use negative numbers in context, and calculate intervals across zero	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	1	Problem solving – using written methods of addition and subtraction (1)	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	2	Problem solving – using written methods of addition and subtraction (2)	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	3	Multiplying numbers up to 4 digits by a 1-digit number	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	4	Multiplying numbers up to 4 digits by a 2-digit number	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	5	Dividing numbers up to 4 digits by a 2-digit number (1)	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	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	6	Dividing numbers up to 4 digits by a 2-digit number (2)	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	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	7	Dividing numbers up to 4 digits by a 2-digit number (3)	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	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	8	Dividing numbers up to 4 digits by a 2-digit number (4)	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	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	9	Dividing numbers up to 4 digits by a 2-digit number (5)	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	
Number – addition, subtraction, multiplication and division		Unit 2	Four operations (1)	10	Dividing numbers up to 4 digits by a 2-digit number (6)	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	
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	1	Common factors	Identify common factors, common multiples and prime numbers	

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	2	Common multiples	Identify common factors, common multiples and prime numbers		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	3	Recognising prime numbers up to 100	Identify common factors, common multiples and prime numbers		
Number – multiplication and division		Unit 3	Four operations (2)	4	Squares and cubes	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) (Year 5)		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	5	Order of operations	Use their knowledge of the order of operations to carry out calculations involving the four operations		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	6	Brackets	Use their knowledge of the order of operations to carry out calculations involving the four operations		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	7	Mental calculations (1)	Perform mental calculations, including with mixed operations and large numbers		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	8	Mental calculations (2)	Perform mental calculations, including with mixed operations and large numbers		
Number – addition, subtraction, multiplication and division		Unit 3	Four operations (2)	9	Reasoning from known facts	Use their knowledge of the order of operations to carry out calculations involving the four operations	Solve problems involving addition, subtraction, multiplication and division	
Number – fractions		Unit 4	Fractions (1)	1	Simplifying fractions (1)	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination		
Number – fractions		Unit 4	Fractions (1)	2	Simplifying fractions (2)	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	Compare and order fractions, including fractions > 1	
Number – fractions		Unit 4	Fractions (1)	3	Fractions on a number line	Compare and order fractions, including fractions > 1		
Number – fractions		Unit 4	Fractions (1)	4	Comparing and ordering fractions (1)	Compare and order fractions, including fractions > 1	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	
Number – fractions		Unit 4	Fractions (1)	5	Comparing and ordering fractions (2)	Compare and order fractions, including fractions > 1	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	
Number – fractions		Unit 4	Fractions (1)	6	Adding and subtracting fractions (1)	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
Number – fractions		Unit 4	Fractions (1)	7	Adding and subtracting fractions (2)	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		

Strand 1	Strand 2	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2	NC Objective 3
Number – fractions		Unit 4	Fractions (1)	8	Adding fractions	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
Number – fractions		Unit 4	Fractions (1)	9	Subtracting fractions	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
Number – fractions		Unit 4	Fractions (1)	10	Problem solving – adding and subtracting fractions (1)	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
Number – fractions		Unit 4	Fractions (1)	11	Problem solving – adding and subtracting fractions (2)	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
Year 5 – Number – fractions		Unit 5	Fractions (2)	1	Multiplying a fraction by a whole number	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams		
Number – fractions		Unit 5	Fractions (2)	2	Multiplying a fraction by a fraction (1)	Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)		
Number – fractions		Unit 5	Fractions (2)	3	Multiplying a fraction by a fraction (2)	Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)		
Number – fractions		Unit 5	Fractions (2)	4	Dividing a fraction by a whole number (1)	Divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$)		
Number – fractions		Unit 5	Fractions (2)	5	Dividing a fraction by a whole number (2)	Divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$)		
Number – fractions		Unit 5	Fractions (2)	6	Dividing a fraction by a whole number (3)	Divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$)		
Number – fractions	Number – addition, subtraction, multiplication and division	Unit 5	Fractions (2)	7	Four rules with fractions	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, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)	Use their knowledge of the order of operations to carry out calculations involving the four operations
Number – fractions		Unit 5	Fractions (2)	8	Calculating fractions of amounts	Use written division methods in cases where the answer has up to two decimal places		
Number – fractions		Unit 5	Fractions (2)	9	Problem solving – fractions of amounts	Use written division methods in cases where the answer has up to two decimal places		
Geometry – position and direction		Unit 6	Geometry – position and direction	1	Plotting coordinates in the first quadrant	Describe positions on the full coordinate grid (all four quadrants)		
Geometry – position and direction		Unit 6	Geometry – position and direction	2	Plotting coordinates	Describe positions on the full coordinate grid (all four quadrants)		
Geometry – position and direction		Unit 6	Geometry – position and direction	3	Plotting translations and reflections	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes		
Geometry – position and direction		Unit 6	Geometry – position and direction	4	Reasoning about shapes with coordinates	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes		