Power Maths Year 5, yearly overview

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

Power Maths Year 5, Textbook 5A (Term 1) overview

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – number and place value	Unit 1	Place value within 1,000,000 (1)	1	Roman numerals	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
Number – number and place value	Unit 1	Place value within 1,000,000 (1)	2	Numbers to 10,000	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 1,000,000 (1)	3	Numbers 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 1,000,000 (1)	4	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 1	Place value within 1,000,000 (1)	5	Read and write 5- and 6-digit numbers	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 1,000,000 (1)	6	Powers of 10	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 1,000,000 (1)	7	10/100/1,000/ 10,000/100,000 more or less	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 1,000,000 (1)	8	Partition 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 (2)	1	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 (2)	2	Compare and order numbers 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 2	Place value within 1,000,000 (2)	3	Compare and order 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 (2)	4	Round numbers to the nearest 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 2	Place value within 1,000,000 (2)	5	Round numbers to the nearest 10,000	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 (2)	6	Round numbers 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 – addition and subtraction	Unit 3	Addition and subtraction	1	Mental strategies (addition)	Add and subtract numbers mentally with increasingly large numbers	
Number – addition and subtraction	Unit 3	Addition and subtraction	2	Mental strategies (subtraction)	Add and subtract numbers mentally with increasingly large numbers	
Number – addition and subtraction	Unit 3	Addition and subtraction	3	Add 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	Add 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)	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – addition and subtraction	Unit 3	Addition and subtraction	5	Subtract 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	6	Subtract 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	7	Round to 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	8	Inverse operations (addition and subtraction)	Estimate and use inverse operations to check answers to a calculation	
Number – addition and subtraction	Unit 3	Addition and subtraction	9	Multi-step addition and subtraction problems (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	Multi-step addition and subtraction problems (2)	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	11	Solve missing number problems	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	12	Solve comparison problems	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	
Number – multiplication and division	Unit 4	Multiplication and division (1)	1	Multiples	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	
Number – multiplication and division	Unit 4	Multiplication and division (1)	2	Common multiples	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	
Number – multiplication and division	Unit 4	Multiplication and division (1)	3	Factors	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	
Number – multiplication and division	Unit 4	Multiplication and division (1)	4	Common factors	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	
Number – multiplication and division	Unit 4	Multiplication and division (1)	5	Prime numbers	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	
Number – multiplication and division	Unit 4	Multiplication and division (1)	6	Square numbers	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	
Number – multiplication and division	Unit 4	Multiplication and division (1)	7	Cube numbers	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	
Number – multiplication and division	Unit 4	Multiplication and division (1)	8	Multiply by 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – multiplication and division	Unit 4	Multiplication and division (1)	9	Divide by 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	
Number – multiplication and division	Unit 4	Multiplication and division (1)	10	Multiples of 10, 100 and 1,000	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	
Number – fractions (including decimals and percentages)	Unit 5	Fractions (1)	1	Equivalent fractions 1	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	
Number – fractions (including decimals and percentages)	Unit 5	Fractions (1)	2	Equivalent fractions 2 – unit and non-unit fractions	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	
Number – fractions (including decimals and percentages)	Unit 5	Fractions (1)	3	Equivalent fractions 3 – families of 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 5	Fractions (1)	4	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 5	Fractions (1)	5	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 5	Fractions (1)	6	Compare fractions less than 1	Compare and order fractions whose denominators are all multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 5	Fractions (1)	7	Order fractions less than 1	Compare and order fractions whose denominators are all multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 5	Fractions (1)	8	Compare and order fractions greater than 1	Compare and order fractions whose denominators are all multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 6	Fractions (2)	1	Add and subtract fractions	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 6	Fractions (2)	2	Add fractions within 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 6	Fractions (2)	3	Add fractions with total greater than 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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	Unit 6	Fractions (2)	4	Add to a mixed number	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 6	Fractions (2)	5	Add two mixed numbers	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 6	Fractions (2)	6	Subtract fractions within 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 6	Fractions (2)	7	Subtract from a mixed number	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 6	Fractions (2)	8	Subtract from a mixed number – breaking the whole	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 6	Fractions (2)	9	Subtract two mixed numbers	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 6	Fractions (2)	10	Solve fraction problems	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
Number – fractions (including decimals and percentages)	Unit 6	Fractions (2)	11	Solve multi-step fraction problems	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	

Power Maths Year 5, Textbook 5B (Term 2) overview

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – multiplication and division	7	Multiplication and division (2)	1	Multiply a number 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	7	Multiplication and division (2)	2	Multiply 2-digit numbers (area model)	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
Number – multiplication and division	7	Multiplication and division (2)	3	Multiply 2-digit numbers	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
Number – multiplication and division	7	Multiplication and division (2)	4	Multiply 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	7	Multiplication and division (2)	5	Multiply 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	7	Multiplication and division (2)	6	Divide a number up to 4 digits 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	7	Multiplication and division (2)	7	Divide a number up to 4 digits 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	
Number – multiplication and division	7	Multiplication and division (2)	8	Divide 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 – multiplication and division	7	Multiplication and division (2)	9	Efficient division	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	7	Multiplication and division (2)	10	Solve problems with multiplication and division	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
Number – fractions (including decimals and percentages)	8	Fractions (3)	1	Multiply unit fractions by an integer	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)	8	Fractions (3)	2	Multiply non-unit fractions by an integer	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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	8	Fractions (3)	3	Multiply mixed numbers by integers (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)	8	Fractions (3)	4	Multiply mixed numbers by integers (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)	8	Fractions (3)	5	Fraction of an amount	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
Number – fractions (including decimals and percentages)	8	Fractions (3)	6	Finding the whole	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
Number – fractions (including decimals and percentages)	8	Fractions (3)	7	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)	9	Decimals and percentages	1	Write decimals up to 2 decimal places – less than 1	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	2	Write decimals up to 2 decimals places – greater than 1	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	3	Equivalent fractions and decimals – tenths	Read and write decimal numbers as fractions [for example, 0·71 = 71/100]	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	4	Equivalent fractions and decimals – hundredths	Read and write decimal numbers as fractions [for example, 0·71 = 71/100]	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	5	Equivalent fractions and decimals	Read and write decimal numbers as fractions [for example, 0·71 = 71/100]	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	6	Thousandths as fractions	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	7	Thousandths as decimals	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	9	Decimals and percentages	8	Thousandths on a place value grid	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	9	Compare and order decimals – same number of decimal places	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	10	Compare and order any decimals with up to 3 decimal places	Read, write, order and compare numbers with up to three decimal places	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	11	Round to the nearest whole number	Round decimals with two decimal places to the nearest whole number and to one decimal place	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	12	Round to one decimal place	Round decimals with two decimal places to the nearest whole number and to one decimal place	
Number – fractions (including decimals and percentages)	9	Decimals and percentages	13	Understand 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)	9	Decimals and percentages	14	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)	9	Decimals and percentages	15	Equivalent fractions, 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
Measurement	10	Measure – perimeter and area	1	Perimeter of rectangles	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	
Measurement	10	Measure – perimeter and area	2	Perimeter of rectilinear shapes (1)	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	
Measurement	10	Measure – perimeter and area	3	Perimeter of rectilinear shapes (2)	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	
Measurement	10	Measure – perimeter and area	4	Perimeter of polygons	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	
Measurement	10	Measure – perimeter and area	5	Area of rectangles (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	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Measurement	10	Measure – perimeter and area	6	Area of rectangles (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	10	Measure – perimeter and area	7	Area of compound shapes	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	10	Measure – perimeter and area	8	Estimate area	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	
Statistics	11	Graphs and tables	1	Draw line graphs	Solve comparison, sum and difference problems using information presented in a line graph	
Statistics	11	Graphs and tables	2	Read and interpret line graphs (1)	Solve comparison, sum and difference problems using information presented in a line graph	
Statistics	11	Graphs and tables	3	Read and interpret line graphs (2)	Solve comparison, sum and difference problems using information presented in a line graph	
Statistics	11	Graphs and tables	4	Read and interpret tables	Complete, read and interpret information in tables, including timetables	
Statistics	11	Graphs and tables	5	Two-way tables	Complete, read and interpret information in tables, including timetables	
Statistics	11	Graphs and tables	6	Timetables	Complete, read and interpret information in tables, including timetables	

Power Maths Year 5, Textbook 5C (Term 3) overview

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Geometry – properties of shapes	12	Geometry – properties of shapes	1	Understand and use degrees	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°
Geometry – properties of shapes	12	Geometry – properties of shapes	2	Measure acute angles	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
Geometry – properties of shapes	12	Geometry – properties of shapes	3	Measure angles up to 180°	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	12	Geometry – properties of shapes	4	Draw lines and angles accurately	Draw given angles, and measure them in degrees (°)	
Geometry – properties of shapes	12	Geometry – properties of shapes	5	Calculate angles around a point	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°	
Geometry – properties of shapes	12	Geometry – properties of shapes	6	Calculate 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 $\frac{1}{2}$ a turn (total 180°) – other multiples of 90°	
Geometry – properties of shapes	12	Geometry – properties of shapes	7	Lengths and angles in shapes	Use the properties of rectangles to deduce related facts and find missing lengths and angles	
Geometry – properties of shapes	12	Geometry – properties of shapes	8	Regular and irregular polygons	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
Geometry – properties of shapes	12	Geometry – properties of shapes	9	Parallel lines	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)	
Geometry – properties of shapes	12	Geometry – properties of shapes	10	Perpendicular lines	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)	
Geometry – properties of shapes	12	Geometry – properties of shapes	11	Investigate lines	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)	
Geometry – properties of shapes	12	Geometry – properties of shapes	12	3D shapes	Identify 3D shapes, including cubes and other cuboids, from 2D representations	
Geometry – position and direction	13	Geometry – position and direction	1	Read and plot coordinates	Describe positions on a 2D grid as coordinates in the first quadrant (Year 4)	Plot specified points and draw sides to complete a given polygon (Year 4)
Geometry – position and direction	13	Geometry – position and direction	2	Problem solving with coordinates	Describe positions on a 2D grid as coordinates in the first quadrant (Year 4)	Plot specified points and draw sides to complete a given polygon (Year 4)
Geometry – position and direction	13	Geometry – position and direction	3	Translate shapes	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	13	Geometry – position and direction	4	Translate points	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	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Geometry – position and direction	13	Geometry – position and direction	5	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	13	Geometry – position and direction	6	Reflection in horizontal and vertical lines	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	
Number – fractions (including decimals and percentages)	14	Decimals	1	Add and subtract decimals within 1 (1)	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	2	Add and subtract decimals within 1 (2)	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	3	Complements to 1	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	4	Add and subtract decimals across 1	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	5	Add decimals with the same number of decimal places	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	6	Subtract decimals with the same number of decimal places	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	7	Add decimals with a different number of decimal places	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	8	Subtract decimals with a different number of decimal places	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	9	Problem solving with decimals (1)	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	10	Problem solving with decimals (2)	Solve problems involving number up to three decimal places	
Number – fractions (including decimals and percentages)	14	Decimals	11	Decimal sequences	Read, write, order and compare numbers with up to three decimal places	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Number – fractions (including decimals and percentages)	14	Decimals	12	Multiply 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)	14	Decimals	13	Multiply 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)	14	Decimals	14	Divide 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)	14	Decimals	15	Divide 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 – number and place value	15	Negative numbers	1	Understand 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	15	Negative numbers	2	Count through zero	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	
Number – number and place value	15	Negative numbers	3	Compare and order 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	15	Negative numbers	4	Find the difference	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	
Measurement	16	Measure – converting units	1	Kilograms and kilometres	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	16	Measure – converting units	2	Millimetres and millilitres	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	16	Measure – converting units	3	Convert units of length	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	16	Measure – converting units	4	Imperial units of length	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	
Measurement	16	Measure – converting units	5	Imperial units of mass	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	

Strand	Unit		Lesson number	Lesson title	NC Objective 1	NC Objective 2
Measurement	16	Measure – converting units	6	Imperial units of capacity	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	
Measurement	16	Measure – converting units	7	Convert units of time	Solve problems involving converting between units of time	
Measurement	16	Measure – converting units	8	Timetables – calculating	Solve problems involving converting between units of time	
Measurement	16	Measure – converting units	9	Problem solving – units of measure (1)	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	
Measurement	16	Measure – converting units	10	Problem solving – units of measure (2)	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	
Measurement	17	Measure – volume	1	Cubic centimetres	Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	
Measurement	17	Measure – volume	2	Compare volumes	Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	
Measurement	17	Measure – volume	3	Estimate volume	Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	