Power Maths Curriculum Mapping Guide

Commented [LB1]: Do we want to say teachers rather than Educators?

This document maps Power Maths units against the primary mathematics curriculum objectives from Year 1 to Year 6. It is designed to provide an at-a-glance overview of where key knowledge, skills and concepts are taught across the programme, supporting curriculum coverage, progression and planning across the school.

Teachers can use this guide to identify where particular objectives are introduced, revisited and developed over time. It can support long-term and medium-term planning, help teachers understand prior and future learning, and provide a useful reference when adapting teaching to meet pupils' needs. Maths leads may also use it to review curriculum coverage, spot potential gaps or overlaps, and support conversations around progression, intervention and assessment.

When using the document, teachers should read across each row to see how a strand develops across year groups, and down each column to understand the sequence of learning within a year group.

Number - Number and Place Value

Year 1 **Units:** 1 Numbers to 10; 2 Part whole within 10; 6 Numbers to 20; 8 Numbers to 50; 11 Multiplication and division; 14 Numbers to 100	**Year 2** **Units:** 1 Numbers to 100; 3 Addition and Subtraction; 12 Problem solving and efficient methods	**Year 3** **Units:** 1 Place value within 1,000; 2 Addition and Subtraction	**Year 4** **Units:** 1–2 Place value – 4-digit numbers	**Year 5** **Units:** 1–2 Place value within 1,000,000; 15 Negative numbers	**Year 6** **Units:** 1 Place value within 10,000,000; 15 Problem solving
identify and represent numbers using objects and pictorial representations, including the number line; use comparative language; count to	count to and across 100; read and write numbers to at least 100 in numerals and words; compare and order numbers to 100; count in 2s, 3s, 5s and 10s; use	recognise place value of two- and three-digit numbers; compare and order numbers up to 1,000; identify, represent and estimate numbers; count in	recognise place value in four-digit numbers; count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; order and compare numbers beyond 1,000;	read Roman numerals to 1,000; read, write, order and compare numbers to at least 1,000,000; count forwards or backwards in powers of 10; round	read, write, order and compare numbers up to 10,000,000; round whole numbers to a required degree of accuracy; use negative numbers in context and

and across 100 forwards and backwards; read and write numbers from 1 to 20; recognise place value in two-digit numbers; identify one more and one less.	place value and number facts to solve problems.	multiples of 4, 8, 50 and 100.	round to the nearest 10, 100 or 1,000.	numbers up to 1,000,000; interpret negative numbers in context.	calculate intervals across zero; solve related number and practical problems.

Number – addition and subtraction

Year 1 **Units:** 2 Part-whole within 10; 3 Addition within 10; 4 Subtraction within 10; 7 Addition and subtraction within 20	**Year 2** **Units:** 2–3 Addition and subtraction; 8 Length and height; 12 Problem solving and efficient methods	**Year 3** **Units:** 2–3 Addition and subtraction	**Year 4** **Units:** 3 Addition and subtraction	**Year 5** **Units:** 3 Addition and subtraction	**Year 6** **Units:** 2–3 Four operations; 12 Statistics
represent and use number bonds and related subtraction facts within 20; read, write and interpret statements using +, − and =; solve one-step addition and subtraction problems, including missing number problems.	recall facts to 20 and derive related facts to 100; add and subtract using concrete, pictorial and mental methods; solve problems using addition and subtraction, including inverse relationships and practical contexts.	add and subtract mentally and using formal written methods for numbers up to three digits; estimate answers, use inverse operations and solve missing number problems.	add and subtract numbers with up to four digits using formal written methods; estimate and use inverse operations; solve two-step problems in context.	add and subtract mentally with increasingly large numbers; add and subtract whole numbers with more than four digits; use rounding and inverse operations to check; solve multi-step problems.	solve addition and subtraction multi-step problems; identify common factors, common multiples and prime numbers; use order of operations; solve problems involving all four operations and estimation.

Geometry – properties of shapes

Year 1 **Units:** 5 2D and 3D shapes	**Year 2** **Units:** 4 Properties of shapes	**Year 3** **Units:** 14 Angles and properties of shapes	**Year 4** **Units:** 14 Geometry – angles and 2D shapes	**Year 5** **Units:** 12 Geometry – properties of shapes	**Year 6** **Units:** 13 Geometry – properties of shapes; 15 Problem-solving
recognise and name common 2-D and 3-D shapes, including rectangles, squares, circles, triangles, cuboids, cubes, pyramids and spheres.	compare and sort common 2-D and 3-D shapes and everyday objects; identify and describe properties of 2-D and 3-D shapes, including sides, symmetry, edges, vertices and faces.	draw 2-D and make 3-D shapes; recognise angles as a property of shape or a description of a turn; identify right angles, horizontal and vertical lines, and pairs of perpendicular and parallel lines.	compare and classify geometric shapes; identify acute and obtuse angles; identify lines of symmetry and complete simple symmetric figures.	identify 3-D shapes from 2-D representations; estimate, compare, draw and measure angles; use properties of rectangles; distinguish regular and irregular polygons; reason about angles at a point, on a straight line and multiples of 90°.	draw 2-D shapes using given dimensions and angles; recognise, describe and build simple 3-D shapes; compare and classify geometric shapes; name parts of circles; find unknown angles in triangles, quadrilaterals, regular polygons, straight lines and around a point.

Measurement

Year 1 **Units:** 9 Introducing length and height; 10 Introducing mass and capacity; 12 Fractions; 15 Money; 16 Time	**Year 2** **Units:** 5 Money; 8 Length and height; 9 Mass, capacity and temperature; 11 Time	**Year 3** **Units:** 7 Length and perimeter; 9 Mass; 10 Capacity; 12 Money; 13 Time	**Year 4** **Units:** 4 Measure – area; 7 Length and perimeter; 12 Money; 13 Time	**Year 5** **Units:** 10 Measure – perimeter and area; 16 Measure – converting units; 17 Measure – volume	**Year 6** **Units:** 6 Measure – imperial and metric measures; 11 Measure – perimeter, area

					and volume; 15 Problem-solving
compare, describe, solve practical problems for, measure and begin to record length, height, mass, capacity and volume; recognise the value of coins and notes; sequence events and use language relating to dates and time.	use standard units to estimate and measure length, mass, temperature and capacity; compare and order measures; recognise coins and notes; solve money problems; tell and write the time to the hour, half hour and five minutes.	measure, compare, add and subtract lengths, mass and volume/capacity; measure perimeter; add and subtract money to give change; tell and write time using analogue, 12-hour and 24-hour clocks; compare durations.	find area by counting squares; convert between units of measure; measure and calculate perimeter; estimate, compare and calculate measures including money; convert between units of time.	measure and calculate perimeter and area of rectilinear shapes; convert between metric units and approximate imperial equivalents; solve measure problems using decimals; estimate volume and capacity.	convert between standard and imperial/metric units; solve measure problems using decimals; recognise relationships between area and perimeter; use formulae for area and volume; calculate area of parallelograms and triangles and volume of cubes and cuboids.

Number – multiplication and division

Year 1 **Units:** 11 Multiplication and division	**Year 2** **Units:** 6–7 Multiplication and division	**Year 3** **Units:** 4–6 Multiplication and division	**Year 4** **Units:** 5–6 Multiplication and division	**Year 5** **Units:** 4 Multiplication and division; 7 Multiplication and division	**Year 6** **Units:** 2 Four operations
solve one-step multiplication and division problems using concrete objects, pictorial representations	recall and use multiplication and division facts for the 2, 5 and 10 times tables; calculate statements using ×,	recall and use facts for the 3, 4 and 8 times tables; write and calculate multiplication and division statements;	recall multiplication and division facts up to 12 × 12; use place value and derived facts for mental	identify multiples, factors, prime numbers, square and cube numbers; multiply and divide by 10, 100 and	recognise and use square and cube numbers and notation; apply multiplication and division

and arrays with support.	÷ and =; solve multiplication and division problems using arrays, repeated addition and mental methods.	solve problems including missing number, scaling and correspondence problems.	calculations; use factor pairs and commutativity; multiply two- and three-digit numbers by one digit and solve related problems.	1,000; multiply and divide numbers up to four digits using formal methods and interpret remainders appropriately.	understanding within wider four operations work.

Number – fractions (including decimals and percentages)

Year 1 **Units:** 12 Fractions	**Year 2** **Units:** 10 Fractions	**Year 3** **Units:** 8 Fractions; 11 Fractions	**Year 4** **Units:** 8–9 Fractions; 10–11 Decimals	**Year 5** **Units:** 5–6 Fractions; 8 Fractions; 9 Decimals and percentages; 14 Decimals	**Year 6** **Units:** 4–5 Fractions; 9 Decimals; 10 Percentages; 15 Problem solving
recognise, find and name a half and a quarter as equal parts of an object, shape or quantity.	recognise, find and name a half and a quarter as equal parts of an object, shape or quantity.	recognise and use unit and non-unit fractions; identify equivalent fractions; compare and order fractions with the same denominators; add and subtract fractions with the same denominator; solve related problems.	recognise and show equivalent fractions; solve fraction problems; add and subtract fractions with the same denominator; recognise, write, compare and round decimal equivalents including tenths, hundredths and common fractions.	compare, order and identify equivalent fractions; convert between mixed numbers and improper fractions; add and subtract fractions; multiply fractions by whole numbers; read, write, order, compare and round decimals; understand percentages and	simplify, compare and order fractions; add, subtract, multiply and divide fractions; use written division with decimal answers; calculate decimal equivalents; multiply decimals; use fraction, decimal and percentage equivalences and solve problems requiring rounding.

				decimal/fraction equivalences.	

Geometry – position and direction

Year 1 **Units:** —	**Year 2** **Units:** 4; 13	**Year 3** **Units:** —	**Year 4** **Units:** 16	**Year 5** **Units:** 13	**Year 6** **Units:** 14
No mapped unit shown.	order and arrange objects in patterns and sequences; use vocabulary to describe position, direction and movement, including straight-line movement and turns.	No mapped unit shown.	describe positions as coordinates in the first quadrant; describe movements as translations; plot specified points and complete polygons.	describe positions on a 2-D grid; plot points and complete polygons; identify, describe and represent reflection and translation.	describe positions on the full coordinate grid; draw and translate simple shapes on the coordinate plane and reflect them in the axes.

Statistics

Year 1 **Units:** —	**Year 2** **Units:** 14	**Year 3** **Units:** 15	**Year 4** **Units:** 15	**Year 5** **Units:** 11	**Year 6** **Units:** 12
No mapped unit shown.	interpret and construct pictograms, tally charts, block diagrams and simple tables; answer questions by counting, sorting, totalling and comparing categorical data.	interpret and present data using bar charts, pictograms and tables; solve one-step and two-step comparison questions using scaled charts and tables.	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs; solve comparison, sum and difference problems.	solve comparison, sum and difference problems using line graphs; complete, read and interpret information in tables, including timetables.	interpret and construct pie charts and line graphs; use these to solve problems; calculate and interpret the mean as an average.

Ratio and proportion

Year 1 **Units:** —	**Year 2** **Units:** —	**Year 3** **Units:** —	**Year 4** **Units:** —	**Year 5** **Units:** —	**Year 6** **Units:** 7 Ratio and proportion; 10 Ratio and proportion; 15 Problem solving
No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	solve problems involving relative sizes of quantities, similar shapes, unequal sharing and grouping, percentages and comparison using knowledge of multiplication, division, fractions and multiples.

Algebra

Year 1 **Units:** —	**Year 2** **Units:** —	**Year 3** **Units:** —	**Year 4** **Units:** —	**Year 5** **Units:** —	**Year 6** **Units:** 8 Algebra
No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	No mapped unit shown.	use simple formulae; generate and describe linear number sequences; express missing number problems algebraically; find pairs of numbers that satisfy equations with two unknowns;

					enumerate possibilities of combinations of two variables.