

## National curriculum to *Power Maths White Rose Maths Edition* matching chart KS1

## Year 1

National curriculum programmes of study Year 1		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Number – number and place value	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.	<ul> <li>Textbook 1A – Unit 1, Numbers to 10, Lessons 2–5 and 7</li> <li>Textbook 1B – Unit 6, Numbers to 20, Lessons 1, 2 and 12</li> <li>Textbook 1B – Unit 8, Numbers to 50, Lessons 1 and 2</li> </ul>	Textbook 2A – Unit 1, Numbers to 100, Lessons 1 and 2
	Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.	<ul> <li>Textbook 1B – Unit 8, Numbers to 50, Lessons 1 and 2</li> <li>Textbook 1C – Unit 11, Multiplication and division, Lessons 1–3</li> <li>Textbook 1C – Unit 14, Numbers to 100, Lessons 1 and 2</li> </ul>	
	Given a number, identify one more and one less.	<ul> <li>Textbook 1A – Unit 1, Numbers to 10, Lessons 6 and 8</li> <li>Textbook 1B – Unit 6, Numbers to 20, Lesson 7</li> <li>Textbook 1B – Unit 8, Numbers to 50, Lesson 7</li> <li>Textbook 1C – Unit 14, Numbers to 100, Lesson 5</li> </ul>	



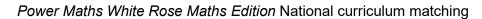
National curriculum programmes of study Year 1		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	<ul> <li>Textbook 1A – Unit 1, Numbers to 10, Lessons 1–6 and 9–14</li> <li>Textbook 1A – Unit 2, Part-whole within 10, Lesson 1</li> <li>Textbook 1B – Unit 6, Numbers to 20, Lessons 3–11</li> <li>Textbook 1B – Unit 8, Numbers to 50, Lessons 3–6</li> <li>Textbook 1C – Unit 14, Numbers to 100, Lessons 3, 4 and 6</li> </ul>	
	<ul> <li>Read and write numbers from 1 to 20 in numerals and words.</li> </ul>	Textbook 1B – Unit 6, Numbers to 20, Lessons 1, 6 and 12	Textbook 2A – Unit 1, Numbers to 100, Lesson 1
Number – addition and subtraction	<ul> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs.</li> </ul>	Textbook 1A – Unit 2, Part-whole within 10, Lessons 3 and 4	
	Represent and use number bonds and related subtraction facts within 20.	<ul> <li>Textbook 1A – Unit 2, Part-whole within 10, Lessons 1–7</li> <li>Textbook 1A – Unit 3, Addition within 10, Lessons 1, 2 and 4</li> <li>Textbook 1A – Unit 4, Subtraction within 10, Lessons 1–5</li> <li>Textbook 1B – Unit 7, Addition and subtraction within 20, Lessons 2–6 and 9</li> </ul>	
	Add and subtract one-digit and two- digit numbers to 20, including zero.	<ul> <li>Textbook 1A – Unit 4, Subtraction within 10, Lesson 7</li> <li>Textbook 1B – Unit 7, Addition and subtraction within 20, Lessons 1, 2, 6 and 7</li> </ul>	



National curriculum programmes of study Year 1		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
	<ul> <li>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ -9.</li> </ul>	<ul> <li>Textbook 1A – Unit 3, Addition within 10, Lesson 3</li> <li>Textbook 1A – Unit 4, Subtraction within 10, Lessons 6 and 8</li> <li>Textbook 1B – Unit 7, Addition and subtraction within 20, Lessons 7, 8, 10 and 11</li> </ul>	
Number – multiplication and division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Textbook 1C – Unit 11, Multiplication and division, Lessons 4–9	Textbook 2B – Unit 6, Multiplication and division (1), Lesson 1
Number – fractions	<ul> <li>Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</li> </ul>	Textbook 1C – Unit 12, Fractions, Lessons 1 and 2	Textbook 2C – Unit 10, Fractions, Lessons 1–4
	<ul> <li>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</li> </ul>	Textbook 1C – Unit 12, Fractions, Lessons 3 and 4	Textbook 2C – Unit 10, Fractions, Lessons 5 and 6
Measurement	<ul> <li>Compare, describe and solve practical problems for:         <ul> <li>lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]</li> <li>mass/weight [for example, heavy/light, heavier than, lighter than]</li> <li>capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]</li> <li>time [for example, quicker, slower, earlier, later].</li> </ul> </li> </ul>	<ul> <li>Textbook 1B – Unit 9, Introducing length and height, Lessons 1 and 4</li> <li>Textbook 1B – Unit 10, Introducing mass and capacity, Lessons 1, 3, 4, 6 and 7</li> </ul>	



National curriculum programmes of study Year 1		Power Maths	
Domain	Pupils should be taught to:  • Measure and begin to record the following:  - lengths and heights  - mass/weight  - capacity and volume  - time (hours, minutes, seconds).	<ul> <li>Year 1</li> <li>Textbook 1B – Unit 9, Introducing length and height, Lessons 2 and 3</li> <li>Textbook 1B – Unit 10, Introducing mass and capacity, Lessons 2, 4 and 5</li> </ul>	Year 2
	Recognise and know the value of different denominations of coins and notes.	Textbook 1C – Unit 15, Money, Lessons 1–3	Textbook 2B – Unit 5, Money, Lessons 1–3
	<ul> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].</li> </ul>	Textbook 1C – Unit 16, Time, Lesson 1	
	Recognise and use language relating to dates, including days of the week, weeks, months and years.	Textbook 1C – Unit 16, Time, Lessons 2 and 3	
	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Textbook 1C – Unit 16, Time, Lessons 4 and 5	Textbook 2C – Unit 11, Time, Lesson 1
Geometry – properties of shapes	<ul> <li>Recognise and name common 2-D and 3-D shapes, including:         <ul> <li>2-D shapes [for example, rectangles (including squares), circles and triangles]</li> <li>3-D shapes [for example, cuboids (including cubes), pyramids and spheres].</li> </ul> </li> </ul>	Textbook 1A – Unit 5, 2D and 3D shapes, Lessons 1–5	





National curriculum programmes of study Year 1		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Geometry – position and direction	Describe position, direction and movement, including whole, half, quarter and three-quarter turns.	<ul> <li>Textbook 1C – Unit 13, Position and direction, Lesson 1</li> </ul>	



## Year 2

National curriculum programmes of study Year 2		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Number – number and place value	<ul> <li>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</li> </ul>		<ul> <li>Textbook 2A – Unit 1, Numbers to 100, Lessons 16 and 17</li> <li>Textbook 2A – Unit 3, Addition and subtraction (2), Lesson 1</li> </ul>
	Recognise the place value of each digit in a two-digit number (tens, ones).	<ul> <li>Textbook 1B – Unit 6, Numbers to 20, Lessons 3–5</li> <li>Textbook 1B – Unit 8, Numbers to 50, Lesson 3</li> <li>Textbook 1C – Unit 14, Numbers to 100, Lesson 3</li> </ul>	Textbook 2A – Unit 1, Numbers to 100, Lessons 3–9
	Identify, represent and estimate numbers using different representations, including the number line.		Textbook 2A – Unit 1, Numbers to 100, Lessons 3–8 and 10–13
	<ul> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> </ul>		Textbook 2A – Unit 1, Numbers to 100, Lessons 13–15
	Read and write numbers to at least 100 in numerals and in words.		Textbook 2A – Unit 1, Numbers to 100, Lesson 9
	Use place value and number facts to solve problems.		<ul> <li>Textbook 2C – Unit 12, Problem solving and efficient methods, Lessons 1–4, 6, 7, 9 and 11</li> </ul>



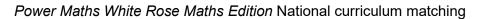


National curriculum programmes of study Year 2		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Number – addition and subtraction	<ul> <li>Solve problems with addition and subtraction:         <ul> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods.</li> </ul> </li> </ul>		<ul> <li>Textbook 2A – Unit 2, Addition and subtraction (1), Lessons 5–8 and 10–13</li> <li>Textbook 2A – Unit 3, Addition and subtraction (2), Lessons 1–12</li> <li>Textbook 2B – Unit 8, Length and height, Lesson 5</li> <li>Textbook 2C – Unit 12, Problem solving and efficient methods, Lessons 4 and 6–10</li> </ul>
	<ul> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> </ul>		<ul> <li>Textbook 2A – Unit 2, Addition and subtraction (1), Lessons 1–4</li> <li>Textbook 2A – Unit 3, Addition and subtraction (2), Lessons 9 and 10</li> </ul>
	<ul> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:         <ul> <li>a two-digit number and ones</li> <li>a two-digit number and tens</li> <li>two two-digit numbers</li> <li>adding three one-digit numbers.</li> </ul> </li> </ul>		<ul> <li>Textbook 2A – Unit 2, Addition and subtraction (1), Lessons 5–13</li> <li>Textbook 2A – Unit 3, Addition and subtraction (2), Lessons 2–7</li> </ul>
	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.		Textbook 2A – Unit 2, Addition and subtraction (1), Lesson 1
	<ul> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> </ul>		Textbook 2C – Unit 12, Problem solving and efficient methods, Lessons 1, 3, 5





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Domain	Pupils should be taught to:	Year 1	Year 2
Number – multiplication and division	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.		Textbook 2B – Unit 7, Multiplication and division (2), Lessons 1–8
	<ul> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.</li> </ul>		Textbook 2B – Unit 6, Multiplication and division (1), Lessons 4 and 6
	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.		Textbook 2B – Unit 6: Multiplication and division (2), Lesson 6
	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.		<ul> <li>Textbook 2B – Unit 6, Multiplication and division (1), Lessons 1–3 and 5–8</li> <li>Textbook 2B – Unit 7, Multiplication and division (2), Lessons 3, 9 and 10</li> </ul>
Number – fractions	• Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.		Textbook 2C – Unit 10, Fractions, Lessons 5–8 and 11
	• Write simple fractions [for example, $\frac{1}{2}$ of 6 = 3] and recognise the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ .		Textbook 2C – Unit 10, Fractions, Lessons 9 and 10



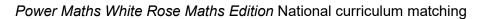


National curriculum programmes of study Year 2		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Measurement	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.		<ul> <li>Textbook 2B – Unit 8, Length and height, Lessons 1 and 2</li> <li>Textbook 2B – Unit 9, Mass, capacity and temperature, Lessons 2, 3 and 5–8</li> </ul>
	<ul> <li>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</li> </ul>		<ul> <li>Textbook 2B – Unit 8, Length and height, Lessons 3 and 4</li> <li>Textbook 2B – Unit 9, Mass, capacity and temperature, Lessons 1 and 4</li> </ul>
	<ul> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</li> </ul>		Textbook 2B – Unit 5, Money, Lessons 1–4 and 8
	<ul> <li>Find different combinations of coins that equal the same amounts of money.</li> </ul>		Textbook 2B – Unit 5, Money, Lesson 5
	<ul> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> </ul>		• Textbook 2B – Unit 5, Money, Lessons 6, 7, 9 and 10
	<ul> <li>Compare and sequence intervals of time.</li> </ul>		Textbook 2C – Unit 11, Time, Lesson 4
	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.		Textbook 2C – Unit 11, Time, Lessons 2 and 3





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Domain	Pupils should be taught to:	Year 1	Year 2
	Know the number of minutes in an hour and the number of hours in a day.		Textbook 2C – Unit 11, Time, Lessons 4 and 5
Geometry – properties of shapes	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line.</li> </ul>		Textbook 2A – Unit 4, Properties of shapes, Lessons 2–5
	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.		Textbook 2A – Unit 4, Properties of shapes, Lessons 8–10
	Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].		Textbook 2A – Unit 4, Properties of shapes, Lesson 1
	Compare and sort common 2-D and 3-D shapes and everyday objects.		Textbook 2A – Unit 4, Properties of shapes, Lessons 1, 6 and 11
Geometry – position and direction	Order and arrange combinations of mathematical objects in patterns and sequences.		<ul> <li>Textbook 2A – Unit 4, Properties of shapes, Lessons 7 and 12</li> <li>Textbook 2C – Unit 13, Position and direction, Lesson 5</li> </ul>
	Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).		Textbook 2C – Unit 13, Position and direction, Lessons 1–5





National curriculum programmes of study Year 2		Power Maths	
Domain	Pupils should be taught to:	Year 1	Year 2
Statistics	<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and tables.</li> </ul>		<ul> <li>Textbook 2C – Unit 14, Statistics, Lessons 1–4 and 6</li> </ul>
	<ul> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> </ul>		Textbook 2C – Unit 14, Statistics, Lessons 5 and 7
	<ul> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul>		Textbook 2C – Unit 14, Statistics, Lessons 5 and 7