



# Mathematics Progression at Porters Grange

## Years 1 – 6



Year 1

Year 2

Year 3

Year 4

Year 5

Year 6

**Place Value**

*Number*

- **(Within 10)**
- Sorting objects
- Counting objects
- Counting objects from a larger group
- Representing objects
- Recognise numbers as words
- Count on from any number
- 1 more
- Count backwards within 10
- 1 less
- Compare groups by matching
- Fewer, more, same
- Less than, greater than, equal to
- Compare numbers
- Order objects and numbers
- The number line
- **(Within 20)**
- Count within 20
- Understand 10
- Understand 11, 12 and 13
- Understand 14, 15 and 16
- Understand 17, 18 and 19

- Numbers to 20
- Count objects to 100 by making 10's
- Recognise tens and ones
- Use a place value chart
- Partition numbers to 100
- Write numbers to 100 in words
- Flexibly partition numbers to 100
- Write numbers to 100 in expanded form
- 10's on the number line to 100
- 10's and 1's on a number line to 100
- Estimate numbers on a number line
- Compare objects
- Compare numbers
- Order objects and numbers
- Count in 2's, 5's and 10's
- Count in 3's

- Represent numbers to 100
- Partition numbers to 100
- Number line to 100
- Hundreds
- Represent numbers to 1,000
- Partition numbers to 1,000
- Flexible partitioning numbers to 1,000
- Hundreds, tens and ones
- Find 1, 10 or 100 more or less
- Number line to 1,000
- Estimate on a number line to 1,000
- Compare numbers to 1,000
- Order numbers to 1,000
- Count in 50's

- Represent numbers to 1,000
- Partition numbers to 1,000
- Number line to 1,000
- Thousands
- Represent Numbers to 10,000
- Partition numbers to 10,000
- Flexible partitioning of numbers to 10,000
- Find 1, 10, 100 and 1,000 more or less
- Number line to 10,000
- Estimate on a number line to 10,000
- Compare numbers to 10,000
- Order numbers to 10,000
- Roman numerals
- Round to the nearest 10

- Roman numerals to 1,000
- Numbers to 10,000
- Numbers to 100,000
- Numbers to 1,000,000
- Read and write numbers to 1,000,000
- Powers of 10
- 10/100/1,000/10,000/100,000 more or less
- Partition numbers to 1,000,000
- Number line to 1,000,000
- Compare and order numbers to 100,000
- Compare and order numbers to 1,000,000
- Round to the nearest 10, 100 or 1,000
- Round within 100,000
- Round within 1,000,000

- Numbers to 1,000,000
- Numbers to 10,000,000
- Read and write numbers to 10,000,000
- Powers of 10
- Number line to 10,000,000
- Compare and order any integers
- Round any integer
- Negative numbers

	<ul style="list-style-type: none"> <li>➤ Understand 20</li> <li>➤ 1 more and 1 less</li> <li>➤ The number line to 20</li> <li>➤ Estimate on a number line to 20</li> <li>➤ Compare numbers to 20</li> <li>➤ Order numbers to 20</li> <li><b><u>(Within 50)</u></b></li> <li>➤ Count from 20 to 50</li> <li>➤ 20, 30, 40 and 50</li> <li>➤ Count by making groups of tens</li> <li>➤ Groups of tens and ones</li> <li>➤ Partition into tens and ones</li> <li>➤ The number line to 50</li> <li>➤ Estimate on a number line to 50</li> <li>➤ 1 more, 1 less</li> <li><b><u>(Within 100)</u></b></li> <li>➤ Count from 50 to 100</li> <li>➤ Tens to 100</li> <li>➤ Partition into tens and ones</li> <li>➤ The number line to 100</li> <li>➤ 1 more, 1 less</li> <li>➤ Compare numbers with the same number of tens</li> <li>➤ Compare any two numbers</li> </ul>			<ul style="list-style-type: none"> <li>➤ Round to the nearest 100</li> <li>➤ Round to the nearest 1,000</li> <li>➤ Round to the nearest 10, 100 or 1,000</li> </ul>		
<p><b>Addition and Subtraction</b></p> <p><i>Number</i></p>	<p><b><u>(Within 10)</u></b></p> <ul style="list-style-type: none"> <li>➤ Introduce parts and wholes</li> <li>➤ Part-whole model</li> <li>➤ Write number sentences</li> <li>➤ Fact families – addition facts</li> <li>➤ Number bonds within 10</li> </ul>	<ul style="list-style-type: none"> <li>➤ Bonds to 10</li> <li>➤ Fact families – addition and subtraction bonds within 20</li> <li>➤ Related facts</li> <li>➤ Bonds to 100 (tens)</li> <li>➤ Add and subtract 1's</li> <li>➤ Add by making 10</li> </ul>	<ul style="list-style-type: none"> <li>➤ Apply number bonds within 10</li> <li>➤ Add and subtract 1's</li> <li>➤ Add and subtract 10's</li> <li>➤ Add and subtract 100's</li> <li>➤ Spot the pattern</li> <li>➤ Add 1's across a 10</li> </ul>	<ul style="list-style-type: none"> <li>➤ Add and subtract 1's, 10's, 100's and 1,000's</li> <li>➤ Add up to two 4-digit numbers – no exchange</li> <li>➤ Add two 4-digit numbers – one exchange</li> <li>➤ Add two 4-digit numbers – more</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mental strategies</li> <li>➤ Add whole numbers with more than four digits</li> <li>➤ Subtract whole numbers with more than four digits</li> <li>➤ Round to check answers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Add and subtract integers</li> <li>➤ Solve multi-step problems</li> <li>➤ Order of operations</li> <li>➤ Mental calculations and estimation</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Systematic number bonds within 10</li> <li>➤ Number bonds to 10</li> <li>➤ Addition – Add together</li> <li>➤ Addition – Add more</li> <li>➤ Addition problems</li> <li>➤ Find a part</li> <li>➤ Subtraction – Find a part</li> <li>➤ Fact families – the eight facts</li> <li>➤ Subtraction – take away/cross out – how many left?</li> <li>➤ Subtraction – take away – how many left?</li> <li>➤ Subtraction on a number line</li> <li>➤ Add or subtract 1 or 2</li> <li>➤ <b><u>(Within 20)</u></b></li> <li>➤ Add by counting on within 20</li> <li>➤ Add ones using number bonds</li> <li>➤ Find and make number bonds to 20</li> <li>➤ Doubles</li> <li>➤ Near doubles</li> <li>➤ Subtract ones using number bonds</li> <li>➤ Subtraction – counting back</li> <li>➤ Subtraction – finding the difference</li> <li>➤ Related facts</li> <li>➤ Missing number problems</li> </ul>	<ul style="list-style-type: none"> <li>➤ Add three 1-digit numbers</li> <li>➤ Add to the next 10</li> <li>➤ Add across a 10</li> <li>➤ Subtract across 10</li> <li>➤ Subtract from a 10</li> <li>➤ Subtract a 1-digit number from a 2-digit number (across a 10)</li> <li>➤ 10 more, 10 less</li> <li>➤ Add and subtract 10's</li> <li>➤ Add 2-digit numbers (not across a ten)</li> <li>➤ Add 2-digit numbers (across a ten)</li> <li>➤ Subtract 2-digit numbers (not across a ten)</li> <li>➤ Subtract 2-digit numbers (across a ten)</li> <li>➤ Mixed addition and subtraction</li> <li>➤ Compare number sentences</li> <li>➤ Missing number problems</li> </ul>	<ul style="list-style-type: none"> <li>➤ Add 10's across a 100</li> <li>➤ Make connections</li> <li>➤ Add two numbers (no exchange)</li> <li>➤ Subtract two numbers (no exchange)</li> <li>➤ Add two numbers (across a 10)</li> <li>➤ Add two numbers (across a 100)</li> <li>➤ Subtract two numbers (across a 10)</li> <li>➤ Subtract two numbers (across a 100)</li> <li>➤ Add 2-digit and 3-digit numbers</li> <li>➤ Subtract a 2-digit number from a 3-digit number</li> <li>➤ Complements to 100</li> <li>➤ Estimate answers</li> <li>➤ Inverse operations</li> <li>➤ Make decisions</li> </ul>	<ul style="list-style-type: none"> <li>➤ than one exchange</li> <li>➤ Subtract two 4-digit numbers – no exchange</li> <li>➤ Subtract two 4-digit numbers – one exchange</li> <li>➤ Subtract two 4-digit numbers – more than one exchange</li> <li>➤ Efficient subtraction</li> <li>➤ Estimate answers</li> <li>➤ Checking strategies</li> </ul>	<ul style="list-style-type: none"> <li>➤ Inverse operations (addition and subtraction)</li> <li>➤ Multi-step addition and subtraction problems</li> <li>➤ Compare calculations</li> <li>➤ Find missing numbers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Reason for known facts</li> </ul>
<p><b>Multiplication and Division</b></p> <p><i>Number</i></p>	<ul style="list-style-type: none"> <li>➤ Count in 2s</li> <li>➤ Count in 10s</li> <li>➤ Count in 5s</li> <li>➤ Recognise equal groups</li> <li>➤ Add equal groups</li> <li>➤ Make arrays</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recognise equal groups</li> <li>➤ Make equal groups</li> <li>➤ Add equal groups</li> </ul>	<ul style="list-style-type: none"> <li>➤ Multiplication – equal groups</li> <li>➤ Use arrays</li> <li>➤ Multiples of 2</li> <li>➤ Multiples of 5 and 10</li> </ul>	<ul style="list-style-type: none"> <li>➤ Multiples of 3</li> <li>➤ Multiply and divide by 6</li> <li>➤ 6 times-table and division facts</li> <li>➤ Multiply and divide by 9</li> </ul>	<ul style="list-style-type: none"> <li>➤ Multiples</li> <li>➤ Common multiples</li> <li>➤ Factors</li> <li>➤ Common factors</li> <li>➤ Prime numbers</li> <li>➤ Square numbers</li> <li>➤ Cube numbers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Common factors</li> <li>➤ Common multiples</li> <li>➤ Rules of divisibility</li> <li>➤ Primes to 100</li> </ul>

	<ul style="list-style-type: none"> <li>➤ <i>Make doubles</i></li> <li>➤ <i>Make equal groups – grouping</i></li> <li>➤ <i>Make equal groups - sharing</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Introduce the multiplication symbol</i></li> <li>➤ <i>Multiplication sentences</i></li> <li>➤ <i>Use arrays</i></li> <li>➤ <i>Make equal groups – grouping</i></li> <li>➤ <i>Make equal groups – sharing</i></li> <li>➤ <i>The 2 times-table</i></li> <li>➤ <i>Divide by 2</i></li> <li>➤ <i>Doubling and halving</i></li> <li>➤ <i>Odd and even numbers</i></li> <li>➤ <i>The 10 times-table</i></li> <li>➤ <i>Divide by 10</i></li> <li>➤ <i>The 5-times table</i></li> <li>➤ <i>Divide by 5</i></li> <li>➤ <i>The 5 and 10 times-tables</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Sharing and grouping</i></li> <li>➤ <i>Multiply by 3</i></li> <li>➤ <i>Divide by 3</i></li> <li>➤ <i>The 3-times table</i></li> <li>➤ <i>Multiply by 4</i></li> <li>➤ <i>Divide by 4</i></li> <li>➤ <i>The 4-times table</i></li> <li>➤ <i>Multiply by 8</i></li> <li>➤ <i>Divide by 8</i></li> <li>➤ <i>The 8-times table</i></li> <li>➤ <i>The 2, 4 and 8 times-tables</i></li> <li>➤ <i>Multiples of 10</i></li> <li>➤ <i>Related calculations</i></li> <li>➤ <i>Reasoning about multiplication</i></li> <li>➤ <i>Multiplying a 2-digit number by a 1-digit number – no exchange</i></li> <li>➤ <i>Multiplying a 2-digit number by a 1-digit number – with exchange</i></li> <li>➤ <i>Link multiplication and division</i></li> <li>➤ <i>Divide a 2-digit number by a 1-digit number – no exchange</i></li> <li>➤ <i>Divide a 2-digit number by a 1-digit number – flexible partitioning</i></li> <li>➤ <i>Divide a 2-digit number by a 1-digit number – with remainders</i></li> <li>➤ <i>Scaling</i></li> <li>➤ <i>How many ways?</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>9 times-table and division facts</i></li> <li>➤ <i>The 3, 6 and 9 times tables</i></li> <li>➤ <i>Multiply and divide by 7</i></li> <li>➤ <i>7 times-table and division facts</i></li> <li>➤ <i>11 times-table and division facts</i></li> <li>➤ <i>12 times-table and division facts</i></li> <li>➤ <i>Multiply by 1 and 0</i></li> <li>➤ <i>Divide a number by 1 and itself</i></li> <li>➤ <i>Multiply three numbers</i></li> <li>➤ <i>Factor pairs</i></li> <li>➤ <i>Use factor pairs</i></li> <li>➤ <i>Multiply by 10</i></li> <li>➤ <i>Multiply by 100</i></li> <li>➤ <i>Divide by 10</i></li> <li>➤ <i>Divide by 100</i></li> <li>➤ <i>Related facts – multiplication and division</i></li> <li>➤ <i>Informal written methods for multiplication</i></li> <li>➤ <i>Multiply a 2-digit number by a 1-digit number</i></li> <li>➤ <i>Multiply a 3-digit number by a 1-digit number</i></li> <li>➤ <i>Divide a 2-digit number by a 1-digit number (1)</i></li> <li>➤ <i>Divide a 2-digit number by a 1-digit number (2)</i></li> <li>➤ <i>Divide a 3-digit number by a 1-digit number</i></li> <li>➤ <i>Correspondence problems</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Multiply by 10, 100 and 1,000</i></li> <li>➤ <i>Divide by 10, 100 and 1,000</i></li> <li>➤ <i>Multiples of 10, 100 and 1,000</i></li> <li>➤ <i>Multiply up to a 4-digit number by a 1-digit number</i></li> <li>➤ <i>Multiply a 2-digit number by a 2-digit number (area model)</i></li> <li>➤ <i>Multiply a 2-digit number by a 2-digit number</i></li> <li>➤ <i>Multiply a 3-digit number by a 2-digit number</i></li> <li>➤ <i>Multiply a 4-digit number by a 2-digit number</i></li> <li>➤ <i>Solve problems with multiplication</i></li> <li>➤ <i>Short division</i></li> <li>➤ <i>Divide a 4-digit number by a 1-digit number</i></li> <li>➤ <i>Divide with remainders</i></li> <li>➤ <i>Efficient division</i></li> <li>➤ <i>Solve problems with multiplication and division</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Square and cube numbers</i></li> <li>➤ <i>Multiply up to a 4-digit number by a 2-digit number</i></li> <li>➤ <i>Solve problems with multiplication</i></li> <li>➤ <i>Short division</i></li> <li>➤ <i>Division using factors</i></li> <li>➤ <i>Introduction to long division</i></li> <li>➤ <i>Long division with remainders</i></li> <li>➤ <i>Solve problems with division</i></li> <li>➤ <i>Solve multi-step problems</i></li> <li>➤ <i>Order of operations</i></li> <li>➤ <i>Mental calculations and estimation</i></li> <li>➤ <i>Reason for known facts</i></li> </ul>
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				➤ <i>Efficient multiplication</i>		
<b>Fractions</b>	<ul style="list-style-type: none"> <li>➤ <i>Recognise half an object or shape</i></li> <li>➤ <i>Find a half of an object or shape</i></li> <li>➤ <i>Recognise a half of a quantity</i></li> <li>➤ <i>Find a half of a quantity</i></li> <li>➤ <i>Recognise a quarter of an object or shape</i></li> <li>➤ <i>Find a quarter of an object or shape</i></li> <li>➤ <i>Recognise a quarter of a quantity</i></li> <li>➤ <i>Find a quarter of a quantity</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Introduction to parts and whole</i></li> <li>➤ <i>Equal and unequal parts</i></li> <li>➤ <i>Recognise a half</i></li> <li>➤ <i>Find a half</i></li> <li>➤ <i>Recognise a quarter</i></li> <li>➤ <i>Find a quarter</i></li> <li>➤ <i>Recognise a third</i></li> <li>➤ <i>Find a third</i></li> <li>➤ <i>Find the whole</i></li> <li>➤ <i>Unit fractions</i></li> <li>➤ <i>Non-unit fractions</i></li> <li>➤ <i>Recognise the equivalence of a half and two quarters</i></li> <li>➤ <i>Recognise three-quarters</i></li> <li>➤ <i>Find three-quarters</i></li> <li>➤ <i>Count in fractions up to a whole</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Understand the denominators of unit fractions</i></li> <li>➤ <i>Compare and order unit fractions</i></li> <li>➤ <i>Understand the numerators of non-unit fractions</i></li> <li>➤ <i>Understand the whole</i></li> <li>➤ <i>Compare and order non-unit fractions</i></li> <li>➤ <i>Fractions and scales</i></li> <li>➤ <i>Fractions on a number line</i></li> <li>➤ <i>Count in fractions on a number line</i></li> <li>➤ <i>Equivalent fractions on a number line</i></li> <li>➤ <i>Equivalent fractions as bar models</i></li> <li>➤ <i>Add fractions</i></li> <li>➤ <i>Subtract fractions</i></li> <li>➤ <i>Partition the whole</i></li> <li>➤ <i>Unit fractions of a set of objects</i></li> <li>➤ <i>Non-unit fractions of a set of objects</i></li> <li>➤ <i>Reasoning with fractions of an amount</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Understand the whole</i></li> <li>➤ <i>Count beyond 1</i></li> <li>➤ <i>Partition a mixed number</i></li> <li>➤ <i>Number lines with mixed numbers</i></li> <li>➤ <i>Compare and order mixed numbers</i></li> <li>➤ <i>Understand improper fractions</i></li> <li>➤ <i>Convert mixed numbers to improper fractions</i></li> <li>➤ <i>Convert improper fractions to mixed numbers</i></li> <li>➤ <i>Equivalent fractions on a number line</i></li> <li>➤ <i>Equivalent fraction families</i></li> <li>➤ <i>Add two or more fractions</i></li> <li>➤ <i>Add fractions and mixed numbers</i></li> <li>➤ <i>Subtract two fractions</i></li> <li>➤ <i>Subtract from whole amounts</i></li> <li>➤ <i>Subtract from mixed numbers</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Find fractions equivalent to unit fractions</i></li> <li>➤ <i>Find fractions equivalent to non-unit fractions</i></li> <li>➤ <i>Recognise equivalent fractions</i></li> <li>➤ <i>Convert improper fractions to mixed numbers</i></li> <li>➤ <i>Convert mixed numbers to improper fractions</i></li> <li>➤ <i>Compare fractions less than 1</i></li> <li>➤ <i>Order fractions less than 1</i></li> <li>➤ <i>Compare and order fractions greater than 1</i></li> <li>➤ <i>Add and subtract fractions with the same denominator</i></li> <li>➤ <i>Add fractions within 1</i></li> <li>➤ <i>Add fractions with a total greater than 1</i></li> <li>➤ <i>Add to a mixed number</i></li> <li>➤ <i>Add two mixed numbers</i></li> <li>➤ <i>Subtract fractions</i></li> <li>➤ <i>Subtract from a mixed number</i></li> <li>➤ <i>Subtract from a mixed number – breaking the whole</i></li> <li>➤ <i>Subtract two mixed numbers</i></li> <li>➤ <i>Multiply a unit fraction by an integer</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Equivalent fractions and simplifying</i></li> <li>➤ <i>Equivalent fractions on a number line</i></li> <li>➤ <i>Compare and order (denominator)</i></li> <li>➤ <i>Compare and order (numerator)</i></li> <li>➤ <i>Add and subtract simple fractions</i></li> <li>➤ <i>Add and subtract any two fractions</i></li> <li>➤ <i>Add mixed numbers</i></li> <li>➤ <i>Subtract mixed numbers</i></li> <li>➤ <i>Multi-step problems</i></li> <li>➤ <i>Multiply fractions by integers</i></li> <li>➤ <i>Multiply fractions by fractions</i></li> <li>➤ <i>Divide a fraction by an integer</i></li> <li>➤ <i>Divide any fraction by an integer</i></li> <li>➤ <i>Mixed questions with fractions</i></li> <li>➤ <i>Fraction of an amount</i></li> </ul>

					<ul style="list-style-type: none"> <li>➤ <i>Multiply a non-unit fraction by an integer</i></li> <li>➤ <i>Multiply a mixed number by an integer</i></li> <li>➤ <i>Calculate a fraction of a quantity</i></li> <li>➤ <i>Find the whole</i></li> <li>➤ <i>Use fractions as operators</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Fraction of an amount – find the whole</i></li> <li>➤ <i>Fractions as division</i></li> <li>➤ <i>Fractions to percentages</i></li> <li>➤ <i>Equivalent fractions, decimals and percentages</i></li> <li>➤ <i>Order fractions, decimals and percentages</i></li> </ul>
<p><b>Decimals</b></p> <p><i>Number</i></p>				<ul style="list-style-type: none"> <li>➤ <i>Tenths as a fraction</i></li> <li>➤ <i>Tenths as decimals</i></li> <li>➤ <i>Tenths on a place value chart</i></li> <li>➤ <i>Tenths on a number line</i></li> <li>➤ <i>Divide a 1-digit number by 10</i></li> <li>➤ <i>Divide a 2-digit number by 10</i></li> <li>➤ <i>Hundredths as fractions</i></li> <li>➤ <i>Hundredths as decimals</i></li> <li>➤ <i>Hundredths on a place value chart</i></li> <li>➤ <i>Divide a 1 or 2-digit number by 100</i></li> <li>➤ <i>Make a whole and tenths</i></li> <li>➤ <i>Make a whole with hundredths</i></li> <li>➤ <i>Partition decimals</i></li> <li>➤ <i>Flexibly partition decimals</i></li> <li>➤ <i>Compare decimals</i></li> <li>➤ <i>Order decimals</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Decimals up to 2 decimal places</i></li> <li>➤ <i>Equivalent fractions and decimals (tenths)</i></li> <li>➤ <i>Equivalent fractions and decimals (hundredths)</i></li> <li>➤ <i>Equivalent fractions and decimals</i></li> <li>➤ <i>Thousandths as fractions</i></li> <li>➤ <i>Thousandths as decimals</i></li> <li>➤ <i>Thousandths on a place value chart</i></li> <li>➤ <i>Order and compare decimals (same number of decimal places)</i></li> <li>➤ <i>Order and compare any decimals with up to 3 decimal places</i></li> <li>➤ <i>Round to the nearest whole number</i></li> <li>➤ <i>Round to 1 decimal place</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Place value within 1</i></li> <li>➤ <i>Place value – integers and decimals</i></li> <li>➤ <i>Round decimals</i></li> <li>➤ <i>Add and subtract decimals</i></li> <li>➤ <i>Multiply by 10, 100 and 1,000</i></li> <li>➤ <i>Divide by 10, 100 and 1,000</i></li> <li>➤ <i>Multiply decimals by integers</i></li> <li>➤ <i>Divide decimals by integers</i></li> <li>➤ <i>Multiply and divide decimals in context</i></li> <li>➤ <i>Decimals and fraction equivalents</i></li> <li>➤ <i>Order fractions, decimals and percentages</i></li> </ul>

				<ul style="list-style-type: none"> <li>➤ <i>Round to the nearest whole number</i></li> <li>➤ <i>Halves and quarters as decimals</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Use known facts to add and subtract decimals within 1</i></li> <li>➤ <i>Complements to 1</i></li> <li>➤ <i>Add and subtract decimals across 1</i></li> <li>➤ <i>Add decimals with the same number of decimal places</i></li> <li>➤ <i>Subtract decimals with the same number of decimal places</i></li> <li>➤ <i>Add decimals with different numbers of decimal places</i></li> <li>➤ <i>Subtract decimals with different numbers of decimal places</i></li> <li>➤ <i>Efficient strategies for adding and subtracting decimals</i></li> <li>➤ <i>Decimal sequences</i></li> <li>➤ <i>Multiply by 10, 100 and 1,000</i></li> <li>➤ <i>Divide by 10, 100 and 1,000</i></li> <li>➤ <i>Multiply and divide decimals – missing values</i></li> </ul>	
<p><b>Percentages</b></p> <p><i>Number</i></p>					<ul style="list-style-type: none"> <li>➤ <i>Understand percentages</i></li> <li>➤ <i>Percentages as fractions</i></li> <li>➤ <i>Percentages as decimals</i></li> <li>➤ <i>Equivalent fractions, decimals and percentages</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Understand percentages</i></li> <li>➤ <i>Percentage of amount – one step</i></li> <li>➤ <i>Percentage of amount – multi step</i></li> <li>➤ <i>Percentages – missing values</i></li> <li>➤ <i>Equivalent fractions, decimals and percentages</i></li> </ul>

						<ul style="list-style-type: none"> <li>➤ <i>Order fractions, decimals and percentages</i></li> </ul>
<b>Negative numbers</b>  <i>Number</i>						<ul style="list-style-type: none"> <li>➤ <i>Understand negative numbers</i></li> <li>➤ <i>Count through zero in 1s</i></li> <li>➤ <i>Count through zero in multiples</i></li> <li>➤ <i>Compare and order negative numbers</i></li> <li>➤ <i>Find the difference</i></li> </ul>
<b>Ratio</b>  <i>Number</i>						<ul style="list-style-type: none"> <li>➤ <i>Add or multiply?</i></li> <li>➤ <i>Use ratio language</i></li> <li>➤ <i>Introduction to the ratio symbol</i></li> <li>➤ <i>Ratio and fractions</i></li> <li>➤ <i>Scale drawing</i></li> <li>➤ <i>Use scale factors</i></li> <li>➤ <i>Similar shapes</i></li> <li>➤ <i>Ratio problems</i></li> <li>➤ <i>Proportion problems</i></li> <li>➤ <i>Recipes</i></li> </ul>
<b>Algebra</b>  <i>Number</i>						<ul style="list-style-type: none"> <li>➤ <i>1-step function machines</i></li> <li>➤ <i>2-step function machines</i></li> <li>➤ <i>Form expressions</i></li> <li>➤ <i>Substitution</i></li> <li>➤ <i>Formulae</i></li> <li>➤ <i>Form equations</i></li> <li>➤ <i>Solve 1-step equations</i></li> <li>➤ <i>Solve 2-step equations</i></li> </ul>



						<ul style="list-style-type: none"> <li>➤ Find pairs of values</li> <li>➤ Solve problems with two unknowns</li> </ul>
<b>Length and Height (Year 1 and 2)</b>  <b>Volume (Year 1)</b>  <b>Length and Perimeter (Year 3 and 4)</b>  <b>Area (Year 4)</b>  <b>Perimeter and Area (Year 5)</b>  <b>Volume (Year 5)</b>  <b>Area, Perimeter and Volume (Year 6)</b>  <i>Measurement</i>	<ul style="list-style-type: none"> <li>➤ Compare lengths and heights</li> <li>➤ Measure length using objects</li> <li>➤ Measure length in centimetres</li> <li>➤ Full and empty</li> <li>➤ Compare volume</li> </ul>	<ul style="list-style-type: none"> <li>➤ Measure in centimetres</li> <li>➤ Measure in metres</li> <li>➤ Compare heights and lengths</li> <li>➤ Order lengths and heights</li> <li>➤ Four operations with lengths and heights</li> <li>➤ Four operations with volume and capacity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Measure in metres and centimetres</li> <li>➤ Measure in millimetres</li> <li>➤ Measure in centimetres and millimetres</li> <li>➤ Metres, centimetres and millimetres</li> <li>➤ Equivalent lengths (metres and centimetres)</li> <li>➤ Compare lengths</li> <li>➤ Add lengths</li> <li>➤ Subtract lengths</li> <li>➤ What is perimeter?</li> <li>➤ Measure perimeter</li> <li>➤ Calculate perimeter</li> </ul>	<ul style="list-style-type: none"> <li>➤ Measure in kilometres and metres</li> <li>➤ Equivalent lengths (kilometres and metres)</li> <li>➤ Perimeter on a grid</li> <li>➤ Perimeter of a rectangle</li> <li>➤ Perimeter of rectilinear shapes</li> <li>➤ Find missing lengths in rectilinear shapes</li> <li>➤ Calculate the perimeter of rectilinear shapes</li> <li>➤ Perimeter of regular polygons</li> <li>➤ Perimeter of polygons</li> <li>➤ What is area?</li> <li>➤ Count squares</li> <li>➤ Make shapes</li> <li>➤ Compare areas</li> </ul>	<ul style="list-style-type: none"> <li>➤ Perimeter of rectangles</li> <li>➤ Perimeter of rectilinear shapes</li> <li>➤ Perimeter of polygons</li> <li>➤ Area of rectangles</li> <li>➤ Area of compound shapes</li> <li>➤ Estimate area</li> <li>➤ Cubic centimetres</li> <li>➤ Compare volume</li> <li>➤ Estimate volume</li> <li>➤ Estimate capacity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Shapes – same area</li> <li>➤ Area and perimeter</li> <li>➤ Area of a triangle – counting squares</li> <li>➤ Area of a right-angled triangle</li> <li>➤ Area of any triangle</li> <li>➤ Area of a parallelogram</li> <li>➤ Volume – counting cubes</li> <li>➤ Volume of a cuboid</li> </ul>
<b>Mass, Capacity</b>	<ul style="list-style-type: none"> <li>➤ Heavier and lighter</li> <li>➤ Measure mass</li> <li>➤ Compare mass</li> <li>➤ Measure capacity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Compare mass</li> <li>➤ Measure in grams</li> <li>➤ Measure in kilograms</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use scales</li> <li>➤ Measure mass in grams</li> </ul>			

<p><b>and Temperature</b></p> <p><i>Measurement</i></p>	<ul style="list-style-type: none"> <li>➤ <i>Compare capacity</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Four operations with mass</i></li> <li>➤ <i>Compare volume and capacity</i></li> <li>➤ <i>Measure in millilitres</i></li> <li>➤ <i>Measure in litres</i></li> <li>➤ <i>Four operations with volume and capacity</i></li> <li>➤ <i>Temperature</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Measure mass in kilograms and grams</i></li> <li>➤ <i>Equivalent masses (kilograms and grams)</i></li> <li>➤ <i>Compare mass</i></li> <li>➤ <i>Add and subtract mass</i></li> <li>➤ <i>Measure capacity and volume in millilitres</i></li> <li>➤ <i>Measure capacity and volume in litres and millilitres</i></li> <li>➤ <i>Equivalent capacities and volumes (litres and millilitres)</i></li> <li>➤ <i>Compare capacity and volume</i></li> <li>➤ <i>Add and subtract capacity and volume</i></li> </ul>			
<p><b>Converting Units</b></p> <p><i>Measurement</i></p>					<ul style="list-style-type: none"> <li>➤ <i>Kilograms and kilometres</i></li> <li>➤ <i>Millimetres and millilitres</i></li> <li>➤ <i>Convert unit of length</i></li> <li>➤ <i>Convert between metric and imperial units</i></li> <li>➤ <i>Convert units of time</i></li> <li>➤ <i>Calculate with timetables</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Metric measures</i></li> <li>➤ <i>Convert metric measures</i></li> <li>➤ <i>Calculate with metric measures</i></li> <li>➤ <i>Miles and kilometres Imperial measures</i></li> </ul>
<p><b>Time</b></p> <p><i>Measurement</i></p>	<ul style="list-style-type: none"> <li>➤ <i>Before and after</i></li> <li>➤ <i>Days of the week</i></li> <li>➤ <i>Months of the year</i></li> <li>➤ <i>Hours, minutes and seconds</i></li> <li>➤ <i>Tell the time to the hour</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>O’Clock and half past</i></li> <li>➤ <i>Quarter past and quarter to</i></li> <li>➤ <i>Tell time past the hour</i></li> <li>➤ <i>Tell time to the hour</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Roman numerals to 12</i></li> <li>➤ <i>Tell the time to 5 minutes</i></li> <li>➤ <i>Tell the time to the minute</i></li> <li>➤ <i>Read time on a digital clock</i></li> </ul>	<ul style="list-style-type: none"> <li>➤ <i>Years, months, weeks and days</i></li> <li>➤ <i>Hours, minutes and seconds</i></li> <li>➤ <i>Convert between analogue and digital times</i></li> </ul>		

	<ul style="list-style-type: none"> <li>➤ Tell the time to the half hour</li> </ul>	<ul style="list-style-type: none"> <li>➤ Tell the time to five minutes</li> <li>➤ Minutes in an hour</li> <li>➤ Hours in a day</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use a.m and p.m</li> <li>➤ Years, months and days</li> <li>➤ Days and hours</li> <li>➤ Hours and minutes – use start and end times</li> <li>➤ Hours and minutes – use durations</li> <li>➤ Minutes and seconds</li> <li>➤ Units of time</li> <li>➤ Solve problems with time</li> </ul>	<ul style="list-style-type: none"> <li>➤ Convert to the 24 hour clock</li> <li>➤ Convert from the 24 hour clock</li> </ul>		
<p><b>Money</b></p> <p><i>Measurement</i></p>	<ul style="list-style-type: none"> <li>➤ Unitising</li> <li>➤ Recognise coins</li> <li>➤ Recognise notes</li> <li>➤ Count in coins</li> </ul>	<ul style="list-style-type: none"> <li>➤ Count money – pence</li> <li>➤ Count money – pounds (notes and coins)</li> <li>➤ Count money – pounds and pence</li> <li>➤ Choose notes and coins</li> <li>➤ Make the same amount</li> <li>➤ Compare amounts of money</li> <li>➤ Calculate with money</li> <li>➤ Making a pound</li> <li>➤ Find change</li> <li>➤ Two-step problems</li> </ul>	<ul style="list-style-type: none"> <li>➤ Pounds and pence</li> <li>➤ Convert pounds and pence</li> <li>➤ Add money</li> <li>➤ Subtract money</li> <li>➤ Find change</li> </ul>	<ul style="list-style-type: none"> <li>➤ Write money using decimals</li> <li>➤ Convert between pounds and pence</li> <li>➤ Compare amounts of money</li> <li>➤ Estimate with money</li> <li>➤ Calculate with money</li> <li>➤ Solve problems with money</li> </ul>		
<p><b>Shape</b></p> <p><i>Geometry</i></p>	<ul style="list-style-type: none"> <li>➤ Recognise and name 3-D shapes</li> <li>➤ Sort 3-D shapes</li> <li>➤ Recognise and name 2-D shapes</li> <li>➤ Sort 2-D shapes</li> <li>➤ Patterns with 2-D and 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recognise 2-D and 3-D shapes</li> <li>➤ Count sides on 2-D shapes</li> <li>➤ Count vertices on 2-D shapes</li> <li>➤ Draw 2-D shapes</li> <li>➤ Lines of symmetry on shapes</li> <li>➤ Use lines of symmetry to complete shapes</li> <li>➤ Sort 2-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Turns and angles</li> <li>➤ Right angles</li> <li>➤ Compare angles</li> <li>➤ Measure and draw accurately</li> <li>➤ Horizontal and vertical</li> <li>➤ Parallel and perpendicular</li> <li>➤ Recognise and describe 2-D shapes</li> <li>➤ Draw polygons</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understand angles as turns</li> <li>➤ Identify angles</li> <li>➤ Compare and order angles</li> <li>➤ Triangles</li> <li>➤ Quadrilaterals</li> <li>➤ Polygons</li> <li>➤ Lines of symmetry</li> <li>➤ Complete a symmetric figure</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understand and use degrees</li> <li>➤ Classify angles</li> <li>➤ Estimate angles</li> <li>➤ Measure angles up to 180</li> <li>➤ Draw lines and angles accurately</li> <li>➤ Calculate angles around a point</li> <li>➤ Calculate angles on a straight line</li> </ul>	<ul style="list-style-type: none"> <li>➤ Measure and classify angles</li> <li>➤ Calculate angles</li> <li>➤ Vertically opposite angles</li> <li>➤ Angles in a triangle</li> <li>➤ Angles in a triangle – special cases</li> </ul>

		<ul style="list-style-type: none"> <li>➤ Count faces on 3-D shapes</li> <li>➤ Count edges on 3-D shapes</li> <li>➤ Count vertices on 3-D shapes</li> <li>➤ Sort 3-D shapes</li> <li>➤ Make patterns with 2-D and 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recognise and describe 3-D shapes</li> <li>➤ Make 3-D shapes</li> </ul>		<ul style="list-style-type: none"> <li>➤ Lengths and angles in shapes</li> <li>➤ Regular and irregular polygons</li> <li>➤ 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Angles in a triangle – missing angles</li> <li>➤ Angles in quadrilaterals</li> <li>➤ Angles in polygons</li> <li>➤ Circles</li> <li>➤ Draw shapes accurately</li> <li>➤ Nets of 3-D shapes</li> </ul>
<p><b>Position and Direction</b></p> <p><i>Geometry</i></p>	<ul style="list-style-type: none"> <li>➤ Describe turns</li> <li>➤ Describe position – left and right</li> <li>➤ Describe position – forwards and backwards</li> <li>➤ Describe position – above and below</li> <li>➤ Ordinal numbers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Language of position</li> <li>➤ Describe movement</li> <li>➤ Describe turns</li> <li>➤ Describe movement and turns</li> <li>➤ Shape patterns with turns</li> </ul>		<ul style="list-style-type: none"> <li>➤ Describe position using coordinates</li> <li>➤ Plot coordinates</li> <li>➤ Draw 2-D shapes on a grid</li> <li>➤ Translate on a grid</li> <li>➤ Describe translation on a grid</li> </ul>	<ul style="list-style-type: none"> <li>➤ Read and plot coordinates</li> <li>➤ Problem solving with coordinates</li> <li>➤ Translation</li> <li>➤ Translation with coordinates</li> <li>➤ Lines of symmetry</li> <li>➤ Reflection in horizontal and vertical lines</li> </ul>	<ul style="list-style-type: none"> <li>➤ The first quadrant</li> <li>➤ Read and plot points in four quadrants</li> <li>➤ Solve problems with coordinates</li> <li>➤ Translations</li> <li>➤ Reflections</li> </ul>
<p><b>Statistics</b></p>		<ul style="list-style-type: none"> <li>➤ Make tally charts</li> <li>➤ Tables</li> <li>➤ Block diagrams</li> <li>➤ Draw pictograms (1-1)</li> <li>➤ Interpret pictograms (1-1)</li> <li>➤ Draw pictograms (2, 5 and 10)</li> <li>➤ Interpret pictograms (2, 5 and 10)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interpret pictograms</li> <li>➤ Draw pictograms</li> <li>➤ Interpret bar charts</li> <li>➤ Draw bar charts</li> <li>➤ Collect and represent data</li> <li>➤ Two-way tables</li> </ul>	<ul style="list-style-type: none"> <li>➤ Interpret charts</li> <li>➤ Comparison, sum and difference</li> <li>➤ Interpret line graphs</li> <li>➤ Draw line graphs</li> </ul>	<ul style="list-style-type: none"> <li>➤ Draw line graphs</li> <li>➤ Read and interpret line graphs</li> <li>➤ Read and interpret tables</li> <li>➤ Two-way tables</li> <li>➤ Read and interpret timetables</li> </ul>	<ul style="list-style-type: none"> <li>➤ Line graphs</li> <li>➤ Dual bar charts</li> <li>➤ Read and interpret pie charts</li> <li>➤ Pie charts with percentages</li> <li>➤ Draw pie charts</li> <li>➤ The mean</li> </ul>