

## Year 5

### Context of Lessons:

- Weekly assessment on number bonds and times tables.
- Three lessons adapted from White Rose to cover key skills, concepts
- One lesson application, reasoning and problem solving skills
- One lesson mental arithmetic

### Autumn Term

White Rose Maths	Place Value	Addition and Subtraction	Multiplication and Division	Statistics	Fractions
	<ul style="list-style-type: none"> <li>- Recap 1,000s, 100s, 10s and 1s</li> <li>- Numbers to 10,000</li> <li>- Recap Rounding to the nearest 10</li> <li>- Recap Rounding to the nearest 100</li> <li>- Rounding to 10, 100 and 1,000</li> <li>- Numbers to 100,000</li> <li>- Compare and order numbers to 100,000</li> <li>- Round numbers within 100,000</li> <li>- Numbers to a million</li> <li>- Counting in 10s, 100s, 1,000s, 10,000s and 100,000s</li> <li>- Compare and order numbers to one million</li> <li>- Round numbers to one million</li> <li>- Negative numbers</li> <li>- Roman numerals</li> </ul>	<ul style="list-style-type: none"> <li>- Recap Add two 4-digit numbers - one exchange</li> <li>- Recap Add two 4-digit numbers - more than one exchange</li> <li>- Add whole numbers with more than 4 digits (column method)</li> <li>- Recap Subtract two 4-digit numbers - one exchange</li> <li>- Recap Subtract two 4-digit numbers - more than one exchange</li> <li>- Subtract whole numbers with more than 4 digits (column method)</li> <li>- Round to estimate and approximate</li> <li>- Inverse operations (addition and subtraction)</li> <li>- Multi-step addition and subtraction problems</li> </ul>	<ul style="list-style-type: none"> <li>- Multiples</li> <li>- Factors</li> <li>- Common factors</li> <li>- Activity Prime numbers</li> <li>- Prime numbers</li> <li>- Square numbers</li> <li>- Cube numbers</li> <li>- Recap Multiply by 10</li> <li>- Recap Multiply by 100</li> <li>- Multiply by 10, 100 and 1,000</li> <li>- Recap Divide by 10</li> <li>- Recap Divide by 100</li> <li>- Divide by 10, 100 and 1,000</li> <li>- Multiples of 10, 100 and 1,000</li> </ul>	<ul style="list-style-type: none"> <li>- Recap Interpret charts</li> <li>- Recap Comparison, sum and difference</li> <li>- Recap Introduce line graphs</li> <li>- Read and interpret line graphs</li> <li>- Draw line graphs</li> <li>- Use line graphs to solve problems</li> <li>- Read and interpret tables</li> <li>- Two-way tables</li> <li>- Timetables</li> </ul>	<ul style="list-style-type: none"> <li>- Recap What is a fraction?</li> <li>- Recap Equivalent fractions</li> <li>- Equivalent fractions</li> <li>- Recap Fractions greater than 1</li> <li>- Improper fractions to mixed numbers</li> <li>- Mixed numbers to improper fractions</li> <li>- Number sequences</li> <li>- Compare and order fractions less than 1</li> <li>- Compare and order fractions greater than 1</li> </ul>
<b>National Curriculum Links</b>	<ul style="list-style-type: none"> <li>- I know what each digit represents in numbers to 1,000,000.</li> <li>- I can use negative numbers in context; count forwards and backwards with positive and negative whole numbers.</li> </ul>	<ul style="list-style-type: none"> <li>- I can add whole numbers with more than 4 digits</li> <li>- I can subtract whole numbers with more than 4 digits.</li> <li>- I can mentally add and subtract using increasingly large numbers.</li> <li>- I can use addition and</li> </ul>	<ul style="list-style-type: none"> <li>- I can recognise and use square (<sup>2</sup>) numbers and cubed (<sup>3</sup>) numbers using accurate notation</li> </ul>	<ul style="list-style-type: none"> <li>- I can read and interpret information in timetables.</li> <li>- I can solve 'difference' and 'comparison' problems using presented data.</li> </ul>	<ul style="list-style-type: none"> <li>- I can identify, name and write equivalent fractions of a given fraction.</li> </ul>

	<p>- I can read, write, order and compare numbers with up to 3 decimal places.</p>	<p>subtraction to solve multi-step problems. - I can multiply numbers up to 4 digits by a one or two digit number.</p>			
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# Year 5

## Spring Term

White Rose Maths	Multiplication and Division	Perimeter and Area	Fractions	Decimals
	<ul style="list-style-type: none"> <li>- Recap Multiply 2-digits by 1-digit</li> <li>- Recap Multiply 3-digits by 1-digit</li> <li>- Multiply 4-digits by 1-digit</li> <li>- Multiply 2-digits (area model)</li> <li>- Multiply 2-digits by 2-digits</li> <li>- Multiply 3-digits by 2-digits</li> <li>- Multiply 4-digits by 2-digits (basic practice)</li> <li>- Multiply 4-digits by 2-digits</li> <li>- Recap Divide 3-digits by 1-digit</li> <li>- Divide 4-digits by 1-digit</li> <li>- Divide with remainders</li> </ul>	<ul style="list-style-type: none"> <li>- Measure perimeter</li> <li>- Recap Perimeter on a grid</li> <li>- Recap Perimeter of rectangles</li> <li>- Recap Perimeter of rectilinear shapes</li> <li>- Calculate perimeter</li> <li>- Recap Counting squares</li> <li>- Area of rectangles</li> <li>- Area of compound shapes</li> <li>- Area of irregular shapes</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract fractions</li> <li>- Activity Add fractions within 1</li> <li>- Add fractions within 1</li> <li>- Add 3 or more fractions</li> <li>- Add fractions</li> <li>- Activity Add mixed numbers</li> <li>- Add mixed numbers</li> <li>- Subtract fractions</li> <li>- Subtract mixed numbers</li> <li>- Subtraction - breaking the whole</li> <li>- Subtract 2 mixed numbers</li> <li>- Multiply unit fractions by an integer</li> <li>- Multiply non-unit fractions by an integer</li> <li>- Multiply mixed numbers by integers</li> <li>- Recap Calculate fractions of a quantity</li> <li>- Fraction of an amount</li> <li>- Using fractions as operators</li> <li>- Fraction problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Decimals up to 2 d.p.</li> <li>- Decimals as fractions</li> <li>- Understand thousandths</li> <li>- Thousandths as decimals</li> <li>- Rounding decimals</li> <li>- Order and compare decimals</li> <li>- Understand percentages</li> <li>- Percentages as fractions and decimals</li> <li>- Equivalent F.D.P</li> </ul>
<b>National Curriculum Links</b>	<ul style="list-style-type: none"> <li>- I can multiply numbers up to 4 digits by a one or two digit number.</li> <li>- I can divide numbers up to 4 digits by a one digit number.</li> <li>- I can multiply and divide numbers mentally.</li> <li>- I can use place value to calculate with decimal numbers.</li> <li>- I can recognise and use square (<sup>2</sup>) numbers and cubed (<sup>3</sup>) numbers using accurate notation</li> </ul>	<ul style="list-style-type: none"> <li>- I can estimate and measure the area of irregular shapes.</li> <li>- I can use the properties on rectangles to deduce related facts and find missing lengths and angles.</li> </ul>	<ul style="list-style-type: none"> <li>- I can identify, name and write equivalent fractions of a given fraction.</li> <li>- I can + and – fractions with the same denominators and denominators that are multiples of the same number.</li> <li>- I can read and write decimal numbers as fractions.</li> <li>- I can write % as a fraction.</li> <li>- I can compare and order fractions whose denominators are all multiples of the same number.</li> </ul>	<ul style="list-style-type: none"> <li>- I can read and write decimal numbers as fractions.</li> <li>- I can read, write, order and compare numbers with up to 3 decimal places.</li> <li>- I can solve problems involving numbers up to 3 decimal places.</li> </ul>

# Year 5

## Summer Term

White Rose	Decimals and Percentages	Properties of Shape	Position and Direction	Converting Units
<b>Maths</b>	<ul style="list-style-type: none"> <li>- - Adding decimals within 1</li> <li>- Subtracting decimals within 1</li> <li>- Complements to 1</li> <li>- Adding decimals - crossing the whole</li> <li>- Adding decimals with the same number of decimal places</li> <li>- Subtracting decimals with the same number of decimal places</li> <li>- Adding and subtracting decimals with the same number of decimal places</li> <li>problem solving</li> <li>- Adding decimals with a different number of decimal places</li> <li>- Subtracting decimals with a different number of decimal places</li> <li>- Adding and subtracting decimals with a different number of decimal places</li> <li>problem solving</li> <li>- Adding and subtracting wholes and decimals</li> <li>- Decimal sequences</li> <li>- Multiplying decimals by 10, 100 and 1,000</li> <li>- Dividing decimals by 10, 100 and 1000,</li> </ul>	<ul style="list-style-type: none"> <li>- Recap Identify angles</li> <li>- Recap Compare and order angles</li> <li>- Measuring angles in degrees</li> <li>- Measuring with a protractor</li> <li>- Activity Drawing lines and angles accurately</li> <li>- Drawing lines and angles accurately</li> <li>- Calculating angles on a straight line</li> <li>- Calculating angles around a point</li> <li>- Recap Triangles</li> <li>- Recap Quadrilaterals</li> <li>- Calculating lengths and angles in shapes</li> <li>- Regular and irregular polygons</li> <li>- Reasoning about 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>- Recap Describe position</li> <li>- Recap Draw on a grid</li> <li>- Position in the first quadrant</li> <li>- Translation</li> <li>- Translation with coordinates</li> <li>- Recap Line of symmetry</li> <li>- Recap Complete a symmetric figure</li> <li>- Reflection</li> <li>- Reflection with coordinates</li> </ul>	<ul style="list-style-type: none"> <li>- Recap Kilometres</li> <li>- Kilograms and kilometres</li> <li>- Millimetres and millilitres</li> <li>- Activity Metric units</li> <li>- Activity Imperial units</li> <li>- Converting units of time</li> <li>- Timetables</li> </ul>
<b>National Curriculum Links</b>	<ul style="list-style-type: none"> <li>-- I can read and write decimal numbers as fractions.</li> <li>- I can read, write, order and compare numbers with up to 3 decimal places.</li> <li>- I can solve problems involving numbers up to 3 decimal places.</li> <li>- I can mentally add and subtract using increasingly large numbers.</li> </ul>	<ul style="list-style-type: none"> <li>- I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>- I can use the properties on rectangles to deduce related facts and find missing lengths and angles.</li> <li>- I can estimate and measure the area of irregular shapes.</li> </ul>	<ul style="list-style-type: none"> <li>- I can describe positions on the full coordinates grid.</li> </ul>	<ul style="list-style-type: none"> <li>- I can convert between different units of metric measure.</li> <li>- I can understand and use approximate equivalences between metric and common imperial units such as inches, pounds and pints.</li> </ul>