

**Roe Farm Primary School  
Year 5**

Autumn 1 <sup>st</sup> Half Term	Autumn 2 <sup>nd</sup> Half Term	Spring 1 <sup>st</sup> Half Term	Spring 2 <sup>nd</sup> Half Term	Summer 1 <sup>st</sup> Half Term	Summer 2 <sup>nd</sup> Half Term
<p><b>Number and place value</b> <b>Chapter 1</b> <b>– Numbers to 1 000 000</b></p> <p>To read and represent numbers to 100 000.</p> <p>To read and represent numbers to 1 000 000.</p> <p>To read and represent numbers to 1 000 000 using number discs.</p> <p>To compare numbers to 1 000 000 using place value.</p> <p>To compare numbers to 1 000 000 using place value.</p> <p>To compare numbers to 1 000 000 using pictorial</p>	<p><b>Multiplication and Division</b> <b>Chapter 3 – Whole Numbers: Multiplication and Division</b></p> <p>To multiply a 4-digit number by a 1-digit number, with regrouping from the ones, tens and hundreds, using multiple methods.</p> <p>To multiply 2-digit numbers by 2-digit numbers using multiple methods.</p> <p>To multiply a 2-digit number by a 2-digit number using multiple methods, including the grid method, number bonds and column</p>	<p><b>Fractions, Decimals and Percentages: Fractions</b> <b>Chapter 6 – Fractions</b></p> <p>To divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers.</p> <p>To write improper fractions and mixed numbers using a number line and pictorial methods.</p> <p>To find equivalent fractions using pictorial methods.</p>	<p><b>Fractions, Decimals and Percentages: Fractions</b> <b>Chapter 7 Decimals</b></p> <p>To add and subtract decimals; to add and subtract amounts in pounds and pence.</p> <p>To add and subtract amounts in pounds and pence.</p> <p>To add and subtract decimals; to add and subtract amounts in pounds and pence.</p> <p>To add and subtract decimals to find the smallest possible sum and difference.</p> <p>To add and subtract decimals; to find</p>	<p><b>Measurement: Measurements</b> <b>Chapter 11 – Measurements</b></p> <p>To convert units of length.</p> <p>To convert units of length, including centimetres and metres.</p> <p>To convert units of length.</p> <p>To solve problems by converting units of length.</p> <p>To convert units of mass.</p> <p>To convert units of mass, including grams into kilograms.</p>	<p><b>Measurement: Volume</b> <b>Chapter 13 – Volume</b></p> <p>To understand the volume of solids.</p> <p>To find the volume of 3-D shapes.</p> <p>To find the volume of solids.</p> <p>To find the capacity of a cuboid.</p> <p>To find the capacity of rectangular boxes.</p> <p>To compare and convert units of volume.</p> <p>To convert units of volume (metric and imperial).</p>

<p>representations and proportionality.</p> <p>To compare numbers to 1 000 000 from pictorial representations, using lists and number lines.</p> <p>To make and identify patterns in numbers using knowledge of place value.</p> <p>To make number patterns that decrease in multiples of 10 000 or 100 000.</p> <p>To round numbers to the nearest 10 000 using number lines and bar graphs.</p> <p>To round numbers to the nearest 100 000 using number lines and bar graphs.</p> <p>To round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.</p>	<p>method, with regrouping.</p> <p>To multiply a 3-digit number by a 2-digit number, with the grid method and column method as key strategies.</p> <p>To multiply a 3-digit number by a 2-digit number with regrouping, using the column method as the key strategy.</p> <p>To find thousands, hundreds and tens in a 4-digit number using concrete materials.</p> <p>To divide 3- and 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.</p> <p>To divide 4-digit numbers by 1-digit numbers, using number bonds and</p>	<p>To compare and order fractions using the pictorial method.</p> <p>To compare and order improper fractions using the pictorial method.</p> <p>To compare mixed numbers using pictorial representations; to find common denominators where one fraction is already the common denominator for all fractions in the question.</p> <p>To make number pairs (number bonds) with fractions with different denominators.</p> <p>To add unlike fractions by finding a common denominator using pictorial methods.</p> <p>To add together unlike fractions where the</p>	<p>number pairs that add up to 1.</p> <p>To add and subtract the perimeter of an object using decimals.</p> <p>To round decimals to the nearest whole number; to round numbers to nearest tenth.</p> <p>Chapter 8 – Percentage</p> <p>To compare quantities; to compare fractions, decimals and percentages; to convert fractions to decimals and percentages.</p> <p>To convert values of an amount into percentages; to convert fractions into percentages.</p> <p><b>Geometry –</b></p>	<p>To convert units of mass, including kilograms and pounds.</p> <p>To convert units of time.</p> <p>To convert units of time from days into weeks and months.</p> <p>To solve problems by converting units of time.</p> <p>To read the temperature on a thermometer.</p> <p><b><u>Measurement: Area and Perimeter</u></b></p> <p><b><u>Chapter 12</u></b> <b><u>– Area and Perimeter</u></b></p> <p>To find the perimeter of shapes.</p> <p>To find shapes with a specific perimeter.</p> <p>To find the perimeter of different shapes.</p>	<p>To solve word problems involving volume.</p> <p><b>Number and Place Value: Roman Numerals</b></p> <p><b><u>Chapter 14</u></b> <b><u>– Roman Numerals</u></b></p> <p>To write Roman numerals to 1000.</p> <p>To write numbers in their thousands in Roman numerals.</p>
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<p><b>Addition and Subtraction</b></p> <p><b>Chapter 2</b> <b>– Whole Numbers:</b> <b>Addition and Subtraction</b></p> <p>To add using the 'counting on' strategy with concrete materials and number lines.</p> <p>To subtract using the 'counting backwards' strategy with concrete materials.</p> <p>To add numbers within 1 000 000 using rounding and concrete materials.</p> <p>To use addition and subtraction to solve comparison problems with numbers to 1 000 000.</p> <p>To add numbers within 1 000 000 using the</p>	<p>long division as the key methods.</p> <p>To divide 3-digit numbers by 1-digit numbers, using long division, short division and mental methods, that give rise to remainders.</p> <p><b>Calculations: Word Problems</b></p> <p><b>Chapter 4</b> <b>– Whole Numbers:</b> <b>Word Problems</b></p> <p>To solve word problems involving multiple operations; to identify the operation needed to carry out the plan.</p> <p>To solve word problems involving multiplication and division using bar models as the main heuristic.</p>	<p>sum is greater than 1, creating mixed numbers or improper fractions.</p> <p>To add unlike fractions which create improper fractions and mixed numbers that give rise to simplification.</p> <p>To subtract fractions with different denominators; to subtract fractions from whole numbers.</p> <p>To subtract fractions where the denominators are not the same; to use bar models as a key strategy for subtracting fractions.</p> <p>To subtract fractions and mixed numbers from mixed numbers with different denominators.</p> <p>To multiply fractions by whole numbers</p>	<p><b>Geometry</b></p> <p><b>Position and Direction: Position and Movement</b></p> <p><b>Chapter 10</b> <b>– Position and Movement</b></p> <p>To name and plot points.</p> <p>To describe the position of a shape following a translation.</p> <p>To describe movements and reflecting shapes.</p> <p>To describe the movement of a 2-D shape when reflected.</p> <p>To reflect a shape more than once.</p>	<p>To use scale diagrams to find the perimeter of a shape.</p> <p>To measure the area of shapes by counting squares.</p> <p>To measure the area of squares.</p> <p>To measure the area of a shape.</p> <p>To measure area in square metres</p> <p>To find the area of shapes in square metres.</p> <p>To make an estimation of area in kilometres.</p>	
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<p>column method of addition.</p> <p>To subtract using the column method, number bonds and number discs using numbers to 1 000 000.</p> <p>To add and subtract using number bonds as a key strategy using numbers within 1 000 000.</p> <p>To consolidate and refine addition skills and place-value knowledge to solve addition problems.</p> <p>To subtract numbers to 1 000 000 using concrete materials, the column method and number bonds.</p> <p>To consolidate and refine subtraction skills and place-value knowledge to solve subtraction problems.</p>	<p>To solve word problems involving multiple operations, identifying key information and representing information using bar model diagrams.</p> <p>To solve word problems involving multiple operations, using bar models as the key heuristic to represent key information.</p> <p>Statistics- Graphs</p> <p><b><u>Chapter 5 – Graphs</u></b></p> <p>To read the information presented in a table and interpret its meaning.</p> <p>To read and respond to information presented in a table.</p> <p>To read and respond to tables that have a variety of data sets.</p>	<p>creating other fractions, mixed numbers or improper fractions.</p> <p>To multiply fractions by whole numbers where the product is an improper fraction or mixed number.</p> <p>To multiply mixed numbers by whole numbers, creating larger mixed numbers.</p> <p>To multiply mixed numbers by whole numbers in multi-step word problems.</p> <p><b><u>Chapter 7 – Decimals</u></b></p> <p>To write decimal numbers.</p> <p>To read and write decimals.</p> <p>To read and write decimals.</p>			
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<p><b><u>Multiplication and Division</u></b></p> <p><b><u>Chapter 3 – Whole Numbers: Multiplication and Division</u></b></p> <p>To consolidate and review multiplication; to find the result of multiplying by a number.</p> <p>To consolidate and review multiplication; to find the numbers we can multiply by to get a number.</p> <p>To define and find common factors of numbers to 100.</p> <p>To identify and name the prime numbers; to recognise prime numbers as numbers that only have 2 factors.</p>	<p>To read and interpret information provided in a line graph where a single line represents the data.</p> <p>To read and interpret information presented on a line graph where the data is represented by more than one line.</p> <p>To read and interpret information presented in a table and turn it into a line graph; to determine relationships between data sets.</p>	<p>To compare tenths and hundredths written as decimals.</p> <p>To order and compare decimals.</p> <p>To compare and order decimals of amounts.</p> <p>To write fractions as decimals.</p> <p>To add and subtract amounts in decimals.</p>			
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<p>To define and determine prime numbers to 100.</p> <p>To create and determine square and cubed numbers.</p> <p>To multiply 1- and 2-digit numbers by 10, 100 and 1000.</p> <p>To multiply 2- and 3-digit numbers by a 1-digit number using multiple strategies.</p> <p>To multiply 4-digit numbers by 1-digit numbers.</p> <p>To multiply 4-digit numbers by 1-digit numbers with regrouping, using a variety of strategies.</p>					
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