



# YEAR 6



- Unit plans are based around the White Rose Math's scheme
- Plans are flexible and may be adapted throughout the year to meet the needs of our children
- Year six pupils will complete one arithmetic session per week additional to their regular maths lesson.

|                   | WEEK ONE   | WEEK TWO  | WEEK THREE  | WEEK FOUR  | WEEK FIVE | WEEK SIX  | WEEK SEVEN   | WEEK EIGHT                               |  |
|-------------------|--|---|---|--|-----------|---|--|--|--|
| <b>AUTUMN ONE</b> | <p style="text-align: center;"><b>Place Value:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Numbers to 1,000,000</li> <li>• <b>Step 2:</b> Numbers to 10,000,000</li> <li>• <b>Step 3:</b> Read and write numbers to 10,000,000</li> <li>• <b>Step 4:</b> Powers of 10</li> <li>• <b>Step 5:</b> Number line to 10,000,000</li> <li>• <b>Step 6:</b> Compare and order any integers</li> <li>• <b>Step 7:</b> Round any integer</li> <li>• <b>Step 8:</b> Negative numbers</li> </ul> |   | <p style="text-align: center;"><b>Addition, Subtraction, Multiplication &amp; Division:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Add and subtract integers</li> <li>• <b>Step 2:</b> Common factors</li> <li>• <b>Step 3:</b> Common multiples</li> <li>• <b>Step 4:</b> Rules of divisibility</li> <li>• <b>Step 5:</b> Primes to 100</li> <li>• <b>Step 6:</b> Square and cube numbers</li> <li>• <b>Step 7 &amp; 8 combined:</b> Multiply up to a 4-digit number by a 2-digit number &amp; solve problems with multiplication</li> <li>• <b>Step 9:</b> Short division</li> <li>• <b>Additional Step:</b> Divide a 4-digit number by a 1-digit number in a long division format</li> <li>• <b>Additional Step:</b> Finding multiples of a given number</li> <li>• <b>Step 11:</b> Introduction to long division</li> <li>• <b>Step 12:</b> Long division with remainders</li> <li>• <b>Step 13:</b> Solve problems with division</li> <li>• <b>Step 14:</b> Solve multi-step problems</li> <li>• <b>Step 15:</b> Order of operations</li> </ul> |  |           |   | <p style="text-align: center;"><b>Fractions A:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Equivalent fractions and simplifying</li> <li>• <b>Step 2:</b> Equivalent fractions on a number line</li> <li>• <b>Step 3:</b> Compare and order (denominator)</li> <li>• <b>Step 4:</b> Compare and order (numerator)</li> </ul> |  | <b>STATUTORY<br/>BASELINE ASSESSMENT</b> |
|                   | <b>AUTUMN TWO</b>  | <p style="text-align: center;"><b>Fractions A continued:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 5:</b> Add and subtract simple fractions</li> <li>• <b>Step 6:</b> Add and subtract any two fractions</li> <li>• <b>Step 7:</b> Add mixed numbers</li> <li>• <b>Step 8:</b> Subtract mixed numbers</li> </ul> | <p style="text-align: center;"><b>Converting Units:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Metric measures</li> <li>• <b>Step 2:</b> Convert metric measures</li> <li>• <b>Step 3:</b> Calculate with metric measures</li> <li>• <b>Step 4:</b> Miles and kilometres</li> <li>• <b>Step 5:</b> Imperial measures</li> </ul>  | <p style="text-align: center;"><b>Fractions B:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Multiply fractions by integers</li> <li>• <b>Step 2:</b> Multiply fractions by fractions</li> <li>• <b>Step 3:</b> Divide a fraction by an integer</li> <li>• <b>Step 4:</b> Divide any fraction by an integer</li> <li>• <b>Step 5:</b> Mixed questions with fractions</li> <li>• <b>Step 6:</b> Fraction of an amount</li> <li>• <b>Step 7:</b> Fraction of an amount - find the whole</li> </ul> |           | <p style="text-align: center;"><b>Ratio:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Add or multiply?</li> <li>• <b>Step 2:</b> Use ratio language</li> <li>• <b>Step 3:</b> Introduction to the ratio symbol</li> <li>• <b>Step 4:</b> Ratio and fractions</li> <li>• <b>Step 5:</b> Scale drawing</li> <li>• <b>Step 6:</b> Use scale factors</li> <li>• <b>Step 7:</b> Similar shapes</li> <li>• <b>Step 8:</b> Ratio problems</li> <li>• <b>Step 9:</b> Proportion problems</li> <li>• <b>Step 10:</b> Recipes</li> </ul> |  | <b>STATUTORY<br/>BASELINE ASSESSMENT</b> |  |



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|            | WEEK ONE  | WEEK TWO | WEEK THREE  | WEEK FOUR | WEEK FIVE   | WEEK SIX |  |
|------------|---|----------|---|-----------|---|----------|--|
| SPRING ONE | <p><b><u>Decimals:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Place value within 1</li> <li>• <b>Step 2:</b> Place value – integers and decimals</li> <li>• <b>Step 3:</b> Round decimals</li> <li>• <b>Step 4:</b> Add and subtract decimals</li> <li>• <b>Step 5:</b> Multiply by 10, 100 and 1,000</li> <li>• <b>Step 6:</b> Divide by 10, 100 and 1,000</li> <li>• <b>Step 7:</b> Multiply decimals by integers</li> <li>• <b>Step 8:</b> Divide decimals by integers</li> <li>• <b>Step 9:</b> Multiply and divide decimals in context</li> </ul> |          | <p><b><u>Fractions, Decimals and Percentages:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Decimal and fraction equivalents</li> <li>• <b>Step 2:</b> Fractions as division</li> <li>• <b>Step 3:</b> Understand percentages</li> <li>• <b>Step 4:</b> Fractions to percentages</li> <li>• <b>Step 5:</b> Equivalent fractions, decimals and percentages</li> <li>• <b>Step 6:</b> Order fractions, decimals and percentages</li> <li>• <b>Step 7:</b> Percentage of an amount – one step</li> <li>• <b>Step 8:</b> Percentage of an amount – multi-step</li> <li>• <b>Step 9:</b> Percentages – missing values</li> </ul> |           | <p><b><u>Algebra:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> 1-step function machines</li> <li>• <b>Step 2:</b> 2-step function machines</li> <li>• <b>Step 3:</b> Form expressions</li> <li>• <b>Step 4:</b> Substitution</li> <li>• <b>Step 5:</b> Formulae</li> <li>• <b>Step 6:</b> Form equations</li> <li>• <b>Step 7:</b> Solve 1-step equations</li> <li>• <b>Step 8:</b> Solve 2-step equations</li> <li>• <b>Step 9:</b> Find pairs of values</li> <li>• <b>Step 10:</b> Solve problems with two unknowns</li> </ul> |          |  |
| SPRING TWO | <p><b><u>Area, Perimeter and Volume:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Shapes - same area</li> <li>• <b>Step 2:</b> Area and perimeter</li> <li>• <b>Step 3:</b> Area of a triangle – counting squares</li> <li>• <b>Step 4:</b> Area of a right-angled triangle</li> <li>• <b>Step 5:</b> Area of any triangle</li> <li>• <b>Step 6:</b> Area of a parallelogram</li> <li>• <b>Step 7:</b> Volume - counting cubes</li> <li>• <b>Step 8:</b> Volume of a cuboid</li> </ul>   |          | <p><b><u>Statistics:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Line graphs</li> <li>• <b>Step 2:</b> Dual bar charts</li> <li>• <b>Step 3:</b> Read and interpret pie charts</li> <li>• <b>Step 4:</b> Pie charts with percentages</li> <li>• <b>Step 5:</b> Draw pie charts</li> <li>• <b>Step 6:</b> The mean</li> </ul>  |           | <p><b><u>Position and Direction:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> The first quadrant</li> <li>• <b>Step 2:</b> Read and plot points in four quadrants</li> <li>• <b>Step 3:</b> Solve problems with coordinates</li> <li>• <b>Step 4:</b> Translations</li> <li>• <b>Step 5:</b> Reflections</li> </ul>  |          |  |



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- *As part of our Fullness of Life curriculum, children will complete BARCLAYS Financial Education Scheme. For Year 6, objectives 5 – 9 are taught after SATS to support transition from primary to secondary.*

|            | WEEK ONE  | WEEK TWO | WEEK THREE | WEEK FOUR  | WEEK FIVE | WEEK SIX | WEEK 7 |  |
|------------|---|----------|------------|--|-----------|----------|--------|--|
| SUMMER ONE | <p><b>Shape:</b></p> <ul style="list-style-type: none"> <li>• <b>Step 1:</b> Measure and classify angles</li> <li>• <b>Step 2:</b> Calculate angles</li> <li>• <b>Step 3:</b> Vertically opposite angles</li> <li>• <b>Step 4:</b> Angles in a triangle</li> <li>• <b>Step 5:</b> Angles in a triangle – special cases</li> <li>• <b>Step 6:</b> Angles in a triangle – missing angles</li> <li>• <b>Step 7:</b> Angles in quadrilaterals</li> <li>• <b>Step 8:</b> Angles in polygons</li> <li>• <b>Step 9:</b> Circles</li> <li>• <b>Step 10:</b> Draw shapes accurately</li> <li>• <b>Step 11:</b> Nets of 3-D shapes</li> </ul> |          |            | <b>STATUTORY ASSESSMENT PREPARATION &amp; COMPLETION</b> |           |          |        |  |
| SUMMER TWO | <b>TRANSITION TO SECONDARY SCHOOL PREPARATION AND THEMED PROJECTS</b><br><b>BARCLAYS: LifeSkills – Financial Education Scheme of Learning</b>   |          |            |  |           |          |        |  |