

# Maths Year 8 Curriculum Planner

| AUTUMN TERM |   |   |   |   |   |   |   |   |    |   |    |    |    |    |    |    |
|-------------|---|---|---|---|---|---|---|---|----|---|----|----|----|----|----|----|
| Week        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | HT | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

|  |                            |  |  |                       |  |  |                         |                          |                          |    |                          |                               |  |  |                         |   |  |
|--|----------------------------|--|--|-----------------------|--|--|-------------------------|--------------------------|--------------------------|----|--------------------------|-------------------------------|--|--|-------------------------|---|--|
|  | Chapter 1<br>Using numbers |  |  | Chapter 2<br>Geometry |  |  | Ch 1 – 2<br>assessment. | Chapter 3<br>Probability | Chapter 4<br>Percentages | HT | Chapter 4<br>Percentages | Chapter 5<br>Congruent shapes |  |  | Ch 3 – 5<br>assessment. | Chapter 6<br>Surface area and<br>volume of prisms |  |
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| SPRING TERM |   |   |   |   |   |   |    |   |   |   |    |    |
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| Week        | 1 | 2 | 3 | 4 | 5 | 6 | HT | 7 | 8 | 9 | 10 | 11 |

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|  | Chapter 7<br>Graphs |  | Chapter 8<br>Number |  |  | Ch 6-8<br>assessment | Chapter 9<br>Interpreting data |  | HT | Chapter 10<br>Algebra |  |  | Chapter 11<br>Shape and ratio |  | Ch 9 – 11<br>assessment |
|--|---------------------|--|---------------------|--|--|----------------------|--------------------------------|--|----|-----------------------|--|--|-------------------------------|--|-------------------------|

| SUMMER TERM |   |   |   |   |   |   |    |   |   |   |    |    |    |    |
|-------------|---|---|---|---|---|---|----|---|---|---|----|----|----|----|
| Week        | 1 | 2 | 3 | 4 | 5 | 6 | HT | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

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|  | Chapter 12<br>Fractions and Decimals |  |  | EOY Exam Revision |  |  | Year 8<br>Exam<br>Week | HT | Exam review | Chapter 13<br>Proportion | Chapter 14<br>Circles | Chapter 15<br>Equations and<br>formulae |  | Chapter 16<br>Comparing data |
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| Topic                                       | Specific points covered  |
|---|--|
| <b>1. Using numbers</b>                     | <ul style="list-style-type: none"> <li>• 1.1 Multiplying and dividing negative numbers;</li> <li>• 1.2 Factors and highest common factor (HCF);</li> <li>• 1.3 Multiples and lowest common multiple (LCM);</li> <li>• 1.4 Powers and roots</li> <li>• 1.5 Prime factors</li> </ul> |
| <b>2. Geometry</b>                          | <ul style="list-style-type: none"> <li>• 2.1 Parallel lines</li> <li>• 2.2 The geometric properties of quadrilaterals</li> <li>• 2.3 Translations</li> <li>• 2.4 Enlargements</li> <li>• 2.5 Constructions</li> </ul>  |
| <b>3. Probability</b>                       | <ul style="list-style-type: none"> <li>• 3.1 Mutually exclusive outcomes and exhaustive outcomes</li> <li>• 3.2 Using a sample space to calculate probabilities</li> <li>• 3.3 Estimates of probability</li> </ul>   |
| <b>4. Percentages</b>                       | <ul style="list-style-type: none"> <li>• 4.1 Calculating percentages</li> <li>• 4.2 Calculating percentage increases and decreases</li> <li>• 4.3 Calculating a percentage change</li> </ul>   |
| <b>5. Congruent shapes</b>                  | <ul style="list-style-type: none"> <li>• 5.1 Congruent shapes</li> <li>• 5.2 Congruent triangles</li> <li>• 5.3 Using congruent triangles to solve problems</li> </ul>   |
| <b>6. Surface area and volume of prisms</b> | <ul style="list-style-type: none"> <li>• 6.1 Metric units for area and volume</li> <li>• 6.2 Surface area of prisms</li> <li>• 6.3 Volume of prisms</li> <li>•</li> </ul>  |
| <b>7. Graphs</b>                            | <ul style="list-style-type: none"> <li>• 7.1 Graphs from linear equations</li> <li>• 7.2 Gradient (steepness) of a straight line</li> <li>• 7.3 Graphs from quadratic equations</li> <li>• 7.4 Real-life graphs</li> </ul>   |
| <b>8. Number</b>                            | <ul style="list-style-type: none"> <li>• 8.1 Powers of 10</li> <li>• 8.2 Significant figures</li> <li>• 8.3 Standard form with large numbers</li> <li>• 8.4 Multiplying with numbers in standard form</li> </ul>   |

| Topic                             | Specific points covered   |
|-----------------------------------|---|
| <b>9. Interpreting data</b>       | <ul style="list-style-type: none"> <li>• 9.1 Interpreting graphs and diagrams</li> <li>• 9.2 Relative sized pie charts</li> <li>• 9.3 Scatter graphs and correlation</li> <li>• 9.4 Creating scatter graphs</li> </ul>  |
| <b>10. Algebra</b>                | <ul style="list-style-type: none"> <li>• 10.1 Algebraic notation</li> <li>• 10.2 Like terms</li> <li>• 10.3 Expanding brackets</li> <li>• 10.4 Using algebraic expressions</li> <li>• 10.5 Using index notation</li> </ul>  |
| <b>11. Shape and ratio</b>        | <ul style="list-style-type: none"> <li>• 11.1 Ratio of lengths, areas and volumes</li> <li>• 11.2 Fractional enlargement</li> <li>• 11.3 Map scales</li> </ul>  |
| <b>12. Fractions and decimals</b> | <ul style="list-style-type: none"> <li>• 12.1 Adding and subtracting fractions</li> <li>• 12.2 Multiplying fractions and integers</li> <li>• 12.3 Dividing with integers and fractions</li> <li>• 12.4 Multiplication with large and small numbers</li> <li>• 12.5 Division with large and small numbers</li> </ul> |
| <b>13. Proportion</b>             | <ul style="list-style-type: none"> <li>• 13.1 Direct proportion</li> <li>• 13.2 Graphs and direct proportion</li> <li>• 13.3 Inverse proportion</li> <li>• 13.4 Comparing direct proportion and inverse proportion</li> </ul>   |
| <b>14. Circles</b>                | <ul style="list-style-type: none"> <li>• 14.1 The circumference of a circle</li> <li>• 14.2 Formula for the circumference of a circle</li> <li>• 14.3 Formula for the area of a circle</li> </ul>   |
| <b>15. Equations and formulae</b> | <ul style="list-style-type: none"> <li>• 15.1 Equations with brackets</li> <li>• 15.2 Equations with the variable on both sides</li> <li>• 15.3 More complex equations</li> <li>• 15.4 Rearranging formulae</li> </ul>  |
| <b>16. Comparing data</b>         | <ul style="list-style-type: none"> <li>• 16.1 Grouped frequency tables</li> <li>• 16.2 Drawing frequency diagrams</li> <li>• 16.3 Comparing sets of data</li> <li>• 16.4 Misleading charts</li> </ul>   |