

## Top-Level Overview for Key Stage 3 Curriculum: Maths

### 1. Endpoint for the end of Key Stage 3:

Students develop secure knowledge with number, ratio and proportion, algebra, shape and measures, and data handling. They learn how to apply this knowledge fluently using suitable mathematical methods. They develop understanding by linking mathematical knowledge and methods to solve increasingly complex problems. They use mathematical reasoning by breaking down more complex problems into a series of simpler steps which leads to a solution.

### 2. Topic Overview

| Year Group | Autumn Term                                                                                                                                                                                   | Spring Term                                                                                                                                                                                                                             | Summer Term                                                                                                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Topics:                                                                                                                                                                                       | Topics:                                                                                                                                                                                                                                 | Topics:                                                                                                                                                                                   |
| <b>7</b>   | <ol style="list-style-type: none"> <li>1. Number skills</li> <li>2. Expressions</li> <li>3. Analysing and displaying data</li> <li>4. Decimals and measures</li> </ol>                        | <ol style="list-style-type: none"> <li>1. Fractions and percentages</li> <li>2. Ratio and proportion</li> <li>3. Functions and formulae</li> <li>4. Lines and angles – including forming equations to find missing angles</li> </ol>    | <ol style="list-style-type: none"> <li>1. Number Application</li> <li>2. Probability</li> <li>3. Sequences, Equations and graphs</li> <li>4. Transformations</li> </ol>                   |
| <b>8</b>   | <ol style="list-style-type: none"> <li>1. Number</li> <li>2. Expressions and equations</li> <li>3. Statistics, graphs and charts</li> <li>4. Area and volume (Formulae in context)</li> </ol> | <ol style="list-style-type: none"> <li>1. Calculating with fractions</li> <li>2. Using Formulae and Equations</li> <li>3. Real life graphs</li> <li>4. Lines and angles – including forming equations to find missing angles</li> </ol> | <ol style="list-style-type: none"> <li>1. Number Application</li> <li>2. Decimals and Ratios</li> <li>3. Straight line graphs</li> <li>4. Percentages, decimals and fractions</li> </ol>  |
| <b>9</b>   | <ol style="list-style-type: none"> <li>1. Indices and standard form</li> <li>2. Expressions and formulae</li> <li>3. Dealing with data</li> <li>4. Multiplicative reasoning</li> </ol>        | <ol style="list-style-type: none"> <li>1. Constructions</li> <li>2. Sequences, inequalities, equations and proportion</li> <li>3. Graphs</li> <li>4. Formulae, equations and expressions – rearranging and applying</li> </ol>          | <ol style="list-style-type: none"> <li>1. Number Application</li> <li>2. Formulae - Circles, Pythagoras and prisms</li> <li>3. Formulae – Trigonometry</li> <li>4. Probability</li> </ol> |