

| KAA Curriculum Overview  |  | Maths <a href="#">SoW 22/23- Year 7-11</a>  | Year 9   | EOY Exam  | Sequencing and Progression   |   |
|--|--|---|--|---|--|---|
| <b>Rationale</b><br>The Year 9 maths curriculum is designed to see students developing a level of proficiency with some of the fundamental topics in the subject. Students will hopefully develop mastery in the fundamentals of maths, achieved through teaching to depth in Year 7 and 8. Students will now have a good foundation to build on as they look to embark on GCSE. For example, students will feel accomplished with number, a prerequisite for many topics at GCSE and A-Level. In Year 9, students will also start looking at new content, like Pythagoras' theorem, which students should be well equipped to study as they have a strong grasp of the building blocks like rearranging formulae. |  |   |  | <i>What content and skills will be assessed in the EOY exam?</i><br><br>1 calculator paper and 1 non-calculator paper in a similar style to GCSE questions, that require procedural fluency as well as the ability to solve problems. | <i>How does this year build on what they've learnt last year?</i><br><br>Students will be taking topics further and will build on what they have looked at in Year 8. For example, in Autumn 1, students look at forming equations, building on their work in Year 8 where they were primarily solving them. | <i>How will it benefit them as they move forward next year?</i><br><br>Students will develop a level of mastery around key fundamental topics allowing them to make good progress at GCSE, as many of the necessary prerequisites will have been taught to great depth. |
| <b>Term</b>  | <b>Autumn 1</b>  | <b>Autumn 2</b>   | <b>Spring 1</b>  | <b>Spring 2</b>   | <b>Summer 1</b>  | <b>Summer 2</b>   |
| <b>Link to MTP Overview</b>  | <a href="#">Year 9F AUT1 MTP 22/23</a><br><a href="#">Year 9H AUT1 MTP 22/23</a>   | <a href="#">Year 9F AUT2 MTP 22/23</a><br><a href="#">Year 9H AUT2 MTP 22/23</a>  | <a href="#">Year 9F SPR1 MTP 22/23</a><br><a href="#">Year 9H SPR1 MTP 22/23</a>   | <a href="#">Year 9F SPR2 MTP 22/23</a><br><a href="#">Year 9H SPR2 MTP 22/23</a>  | <a href="#">Year 9F SUM1 MTP 22/23</a><br><a href="#">Year 9H SUM1 MTP 22/23</a>   | <a href="#">Year 9F SUM2 MTP 22/23</a><br><a href="#">Year 9H SUM2 MTP 22/23</a>  |
| <b>Topic studied</b>   | <b>H</b> <ul style="list-style-type: none"> <li>Forming and solving equations</li> <li>Prime factors, HCF and LCM</li> <li>Laws of indices</li> </ul>  | <ul style="list-style-type: none"> <li>Substitution and formulae</li> <li>Standard form</li> <li>Pythagoras' theorem</li> </ul>   | <ul style="list-style-type: none"> <li>Expanding and factorising quadratics</li> <li>Averages</li> <li>Transformations</li> </ul>  | <ul style="list-style-type: none"> <li>Exterior and interior angles</li> <li>Sequences and nth term</li> <li>Simultaneous equations</li> </ul>  | <ul style="list-style-type: none"> <li>Gradient and <math>y = mx + c</math></li> <li>Percentages</li> <li>Plotting non-linear graphs</li> </ul>  | <ul style="list-style-type: none"> <li>Interpreting data project</li> </ul>   |
|  | <b>F</b> <ul style="list-style-type: none"> <li>Negative numbers</li> <li>Forming and solving equations</li> <li>Prime factors, HCF and LCM</li> <li>Laws of indices</li> </ul>  | <ul style="list-style-type: none"> <li>Substitution and formulae</li> <li>Standard form</li> <li>Pythagoras' theorem</li> </ul>   | <ul style="list-style-type: none"> <li>Simplifying</li> <li>Expanding and factorising quadratics</li> <li>Averages</li> <li>Transformations</li> </ul>   | <ul style="list-style-type: none"> <li>Exterior and interior angles</li> <li>Sequences and nth term</li> <li>Multiplicative reasoning</li> </ul>  | <ul style="list-style-type: none"> <li>Straight line graphs</li> <li>Percentages</li> <li>Fractions review</li> </ul>  | <ul style="list-style-type: none"> <li>Interpreting data project</li> </ul>   |
| <b>Adjustments following last assessments / evaluation.</b>  |  |   |  |   |  |   |
| <b>Key knowledge and skills students need to have gained by the end of the unit</b>  | <b>H</b> <ul style="list-style-type: none"> <li><a href="#">Forming and Solving Equations</a></li> <li><a href="#">Prime Factors</a></li> <li><a href="#">Laws of indices</a></li> </ul>   | <ul style="list-style-type: none"> <li><a href="#">Substitution and formulae</a></li> <li><a href="#">Standard form</a></li> <li><a href="#">Pythagoras' theorem</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Expanding and Factorising Quadratics</a></li> <li><a href="#">Averages</a></li> <li><a href="#">Transformations</a></li> </ul>                                      | <ul style="list-style-type: none"> <li><a href="#">Exterior and Interior Angles</a></li> <li><a href="#">Sequences and nth term</a></li> <li><a href="#">Simultaneous equations</a></li> </ul>  | <ul style="list-style-type: none"> <li><a href="#">Gradient and <math>y = mx + c</math></a></li> <li><a href="#">Percentages</a></li> <li><a href="#">Non-linear graphs</a></li> </ul>   | <ul style="list-style-type: none"> <li><a href="#">Representing data</a></li> </ul>   |
|  | <b>F</b> <ul style="list-style-type: none"> <li><a href="#">Negative numbers</a></li> <li><a href="#">Forming and Solving Equations</a></li> <li><a href="#">Prime Factors</a></li> <li><a href="#">Laws of indices</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Substitution and formulae</a></li> <li><a href="#">Standard form</a></li> <li><a href="#">Pythagoras' theorem</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Simplifying</a></li> <li><a href="#">Expanding and Factorising Quadratics</a></li> <li><a href="#">Averages</a></li> <li><a href="#">Transformations</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Exterior and Interior Angles</a></li> <li><a href="#">Sequences and nth term</a></li> <li><a href="#">Multiplicative reasoning</a></li> </ul>                                      | <ul style="list-style-type: none"> <li><a href="#">Gradient and <math>y = mx + c</math></a></li> <li><a href="#">Percentages</a></li> <li><a href="#">Fractions review</a></li> </ul>  | <ul style="list-style-type: none"> <li><a href="#">Representing data</a></li> </ul>   |
| <b>How is understanding assessed at the end of the unit?</b>   |  | Formal assessment in the second last week of AUT2   |  | Formal assessment in the second last week of SPR2   |  | Formal end-of-year assessment   |