| ***Overview Document 2026/27*** | Curriculum Area: Mathematics | Year Group: 11 (Higher) |
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| | Personnel Responsible: Mr. J. Parpagga (Curriculum Director) | Quality Assured by: Mrs L.Francome (Assistant Headteacher) |

| Assessment Cycle | Topic/Unit Title – *Big Question* | Content Coverage | Skill development and links to other areas of this subject's curriculum |
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| **1** | What Essential Knowledge Can You Recall? | • Surds and indices.<br>• Expanding double and triple brackets.<br>• Displaying data: histograms and cumulative frequency.<br>• Quadratics: factorising, solving, completing the square, sketching, quadratic formula, inequalities.<br>• Simultaneous equations (non-linear).<br>• Co-ordinate geometry, including equation of a circle. | Students start year 11 with an in depth focus on quadratics, which can then be applied to other problems later on, for example while solving more complex geometry problems. This cycle also relies on students being able to recall key formulae that they are learning so they are prepared for their mock assessments at the end of the cycle. There will therefore be a focus on helping students to recall this essential knowledge from prior and current learning. Students will continue to be exposed to a range of topics throughout the cycle that they have learnt previously, to support their revision. |
| **2** | How many formulae related to triangles can you remember? | • Circle theorems.<br>• Similarity and congruence.<br>• Geometric proof: circle theorems, congruent triangls and similar triangles.<br>• Trigonometry: Area of a triangle, sine and cosine rules, 3D Pythagoras and trigonometry, and bearings.<br>• Trigonometric graphs: including sketching and finding exact solutions.<br>• Non-linear graphs: including gradient of curve and area under a curve. | After the first set of mocks, students will extend their knowledge of triangles and other geometry topics by applying higher trigonometry topics to more complex problems. This builds on previous geometry and algebra knowledge, linking to formulae and solving equations, as well as graphs and functions. Students will also fill gaps that are identified in their mock exams, and will be directed towards the topics that they need to revise. |
| **3** | What Are the Gaps in Your Knowledge? | • Vectors<br>• Functions: inverse, composite, and transforming graphs.<br>• Algebraic functions<br>• Algebraic proof<br>• Constructions and loci. | The final cycle in year 11 includes the final practice opportunity before GCSE exams in the Summer with their second mock period. A unit on vectors rounds off the year before a final opportunity to fill gaps from their mock exams and final revision for the GCSE exams. |