**Mathematics Department**

Long-term sequencing Year 11 Stage Higher

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| **The curriculum has been designed to ensure that students develop the skills required to be successful in reaching their goals. We want students to be numerate and understand the Mathematics of the world around them, whilst also having an appreciation and love of Mathematical concepts.**  **Problem solving is embedded from year 7 all the way through to year 13, with a 5-year SOW in year 7 to 11, based upon students’ current level of knowledge and understanding. Teaching is based around an interleaved curriculum, with links made between multiple topics. Students will build on knowledge from Key Stage 3 to further develop their mathematical skills and apply these not only in their Maths lessons but also wherever relevant in other subjects and in day to day contexts. Each stage of students 5-year plan builds upon students’ prior knowledge and seeks to develop this further. Our curriculum is designed to be fluid, data-led and student-centric, with it being adapted as and when necessary.** |

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| **Half term 1 and 2**  **Student will complete a revision SoW based on year 10 mocks and ERA from previous years during half term 1 covering the following topics:**   * **Error intervals** * **Percentage change** * **Reverse percentages** * **Simultaneous equations (linear and quadratic)** * **Transformations** * **Similar area and volume** * **Calculating with surds** * **Rationalising surds** * **Algebraic fractions** * **Circle theorems** * **Drawing histograms** * **Interpreting histograms**   **From half term 2, students will complete a personalised revision SoW based on the QLA from LRW1.**  **HOW THIS WILL BE ASSESSED:**  **End of unit assessments.**  **Formative assessment in class.**  **Homework.**  **Mock weeks - Edited GCSE past papers** | **Half term 3 and 4**  **Students will complete a personalised revision SoW based on the QLA from LRW2. This will also include a past paper ever Friday in lessons in the style of a walk-through mock.**  **Topics include (update after LRW1):**  **From Half term 4, students will do past papers in lesson in the style of a walk-through mock in weekly blocks, every third week.**  **HOW THIS WILL BE ASSESSED:**  **End of unit assessments.**  **Formative assessment in class.**  **Homework.**  **Mock weeks - Edited GCSE past papers** | **Half term 5**  **Students will do past papers in lesson in the style of a walk-through mocks every lesson to prepare for exams.**  **HOW THIS WILL BE ASSESSED:**  **End of unit assessments.**  **Formative assessment in class.**  **Homework.**  **Mock weeks - Edited GCSE past papers** |
| **Home learning set will consist of a combination of: three-part homework on spaced and current learning, and past papers.** | | |