| Subject | Mathematics |
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| Vision statement: | At Landau Forte our curriculum exists to ensure all students regardless of background and ability have the opportunity to unlock their potential. We are committed to <br> students being challenged from their previous key stage learning experiences. Our broad and balanced curriculum is ambitious, coherently planned and sequenced, <br> and will provide the platform for preparing students with the foundations for examination success. |
| Our Curriculum Intent has been informed by a wide variety of researchers and is steeped in evidence based research. Christine Counsell summarises the aspiration of <br> our curriculum to empower all learners creating a pathway to success in university, their career and life: |  |
| A curriculum exists to change the pupil, to give the pupil new power. One acid test for a curriculum is whether it enables even lower attaining or disadvantaged pupils |  |
| to clamber into the discourse and practices of educated people, so that they gain powers of the powerful.' |  |






| QEMS | QEMS |
| :---: | :---: |
|  | CURIOSITY <br> COMPASSION <br> COURAGE |
|  | sequences are revisited in year 8 during the spring term (Revise and extend Y 7 coverage to include more complex rules) to further extend and embed understanding. This then moves towards working with conjectures in year 9 (Testing conjectures about sequences) and finding the nth term of a linear sequence. In year 10 students will revise and extend KS3 content, whilst higher students will begin looking at sequences with surds and quadratic sequences in the summer term. |
| Values | This scheme of work promotes the school values of Compassion, Curiosity and Courage by: <br> Compassion - Students show compassion through a culture of being non-judgmental when questions are answered incorrectly. <br> Curiosity - Students are encouraged to show curiosity through asking questions and taking a genuine interest in the real life applications of the Maths that they are learning. <br> Courage - Students are encouraged to show courage through attempting questions |
| National Curriculum plus: | In addition to teaching the statutory elements of the national curriculum, we also include opportunities to extend their learning beyond the classroom. For example practical examples and going further than the curriculum in terms of what they are expected to know from a financial literacy perspective. <br> Preparation of students to take Level 2 further maths in support of achieving additional qualifications, higher grades in their normal GCSE maths and in preparation for A-level maths: <br> - Rationalisation of surds using difference of 2 squares <br> - Domains and ranges of functions <br> - Expanding triple brackets <br> - Binomial expansion <br> - Factor theorem <br> - Advanced algebraic fractions <br> - Sketching functions and interpreting graphs <br> - Transformations of functions <br> - Trig identities <br> - Algebraic proof <br> - Limiting values of sequences and expressions <br> - Equations of circles not centred on the origin <br> - Differentiation <br> - Matrices <br> - Matrix transformations <br> - Geometric proof |

