Maths - Curriculum vision and Intent

Students should acquire, select and apply mathematical techniques to solve cross-curricular and real life problems by effectively interpreting and communicating mathematical information in context.
Students will be able to recall facts, terminology and definitions, make deductions, inferences and draw conclusions from mathematical information by constructing chains of reasoning. Student should be able to make and use connections between different parts of Mathematics, different subjects and the wider world.

OUR Y11 INTENT	**Year 11 students will be able to make connections between different parts of mathematics to solve problems whilst using mathematical language, presentation and properties effectively. They will be able to make and test conjectures and the generalisations that underlie patterns and relationships; look for proofs or counter examples; begin to use algebra to support and construct arguments.**

OUR Y10 INTENT	**Students will possess well rounded knowledge of number properties, algebraic manipulation, shape, space and measure and ratio and proportion as well as a broad understanding of statistics and probability. They will learn to select and use appropriate calculation strategies to solve increasingly complex problems, including exact calculations involving multiples of π.**

OUR Y9 INTENT	**Students will continue to develop and extend their knowledge through learning new concepts. They will also be able to interpret when the structure of a numerical problem requires additive, multiplicative or proportional reasoning. They will extend their knowledge of ratio and proportion in working with measures and geometry, and in formulating proportional relations algebraically. Looking closely at analysis and interpretation of data will develop students' oracy skills and will allow them to explore mathematical data in the real world.**

OUR Y8 INTENT	**In Year 8 students will start to apply mathematical knowledge in varying contexts. They will develop algebraic and graphical fluency, including understanding linear functions. Learners will be able to use subject specific terminology to analyse numbers, algebraic expressions and describe properties of 2-D and 3-D shapes. They will be able to select the most appropriate method for solving problems developing their reasoning and conceptual understanding within the subject.**

OUR Y7 INTENT	**Students will consolidate and develop numerical fluency extending their understanding of the number system and place value to include decimals, fractions and powers and roots. This year will focus on introducing them to key concepts in the different strands of Mathematics, laying strong foundations on which they will further build their knowledge. Exploration of maths in the real world will foster curiosity and enjoyment of the subject.**