



Curriculum Intent

Subject: Mathematics

Year 11

	Topics	Why?	National Curriculum Links
Term 1-1	Number calculations Ratio and proportion Solving equations	<ul style="list-style-type: none"> - We start with number as we need the solid number skills for most things. Rounding leads onto estimation naturally. Year 11 spend the initial weeks of the year refreshing basic number work, as well as key content that will aid progress moving through the year. - Ratio is a huge part of the GCSE course and is looked at in depth to build confidence moving into the final year of GCSEs. - In order to apply the knowledge to other areas, solving equations is revisited early in the final year. 	<ul style="list-style-type: none"> • Rounding and approximation • HCF LCM • Algebraic manipulation • Forming and solving equations
Term 1-2	Statistics Fractions decimals percentages Exam recap	<ul style="list-style-type: none"> - Students look at the full data collection cycle again, reminding themselves of average calculations, as well as statistical diagrams and the higher course includes histograms. - FDP basics are recapped, with application across the curriculum practised. - Year 11 take a considerable amount of time this term preparing for GCSE mock exams. 	<ul style="list-style-type: none"> • Histograms • Rates of change • Box plots
Term 2-1	Measures and circles Graphs Exam recap	<ul style="list-style-type: none"> - Circles use $\pi = 3.142$ so tend to be reliant on calculator skills and this leads nicely into circle theorems. Area of simple and complex shapes is revised, as is the application of both ratio and algebra in geometry. 	<ul style="list-style-type: none"> • Circle geometry • Area • Area under graphs • Linear graphs
Term 2-2	Pythagoras and trigonometry Probability	<ul style="list-style-type: none"> - Pythagoras and trigonometry are recapped later in the year, with an emphasis on inter-topic connections. Higher students spend additional time looking through non-right angled trigonometry. - All aspects of probability are revised, again supported by the recent work on fractions and decimals specifically. 	<ul style="list-style-type: none"> • Pythagoras • Trigonometry • Sine Rule • Cosine Rule • Probability of combined events
Term 3-1	Exam Preparation!	<ul style="list-style-type: none"> - Content is now tailored to individuals and individual groups, with a strong emphasis on independent preparation for GCSE exams. 	7