Department: Maths	Year 11

Plan Of Learning For The Year (Unit/Topic/Project Context)	
Half Term 1 • Gradients and straight line graphs • Non-linear graphs • Using graphs in context **Half Term 2** • Expanding and factorising • Solving quadratic equations • Changing the subject of a formula • Functions **Half Term 3** • Multiplicative reasoning inc. direct and indirect proportion • Geometric reasoning – review of trigonometry and circle theorems	**Half Term 4** • Review and extension of work on sequences • Review of transformations and at higher tier extension to transforming graphs • Listing methods and capture/recapture **Half Term 5** • Final revision for GCSE examinations

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
• Self and peer assessment • Regular exit tickets (a check of understanding of key skills, marked by teacher) • Termly teacher marked mock examination style papers. • Live marking by teacher in lesson	• UKMT (UK Mathematics Trust) Intermediate Challenge– all students have the opportunity to partake in this nationwide problem solving competition) • Dr Frost Maths for extra practice • Corbett Maths and Mathsgenie	• Links to famous mathematicians made throughout. • Links made to use of mathematics outside the classroom • Problem Solving – a transferrable skill for many careers.

Common misconceptions	Connecting New Knowledge	Challenge for all
• Exit tickets designed to address predicted misconceptions. • Whiteboard questions used in lessons have misconceptions embedded throughout • Some use of diagnostic questions	• Curriculum Maps to show sequencing of topics • Regular retrieval starters to promote revisiting of skills taught in the past • Building upon topics taught in KS3	• Problem Solving opportunities in all lessons • Regular use of exam style questions • Questioning used to challenge mathematical thinking • High quality communication of mathematical reasoning is embedded into all lessons