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