Department: Maths	Year 9

Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1
- Straight Line Graphs
- Forming and Solving Equations
- Testing Conjectures (HCF, LCM, proof)
-

Half Term 2
- 2D and 3D Shapes (Area and Volume)
- Number (Fractions and Standard Form)

Half Term 3
- Using Percentages
- Maths and Money

Half Term 4
- Deduction (Angles in Parallel Lines)
- Rotation and Translation
- Pythagoras' Theorem

Half Term 5
- Enlargement and Similarity
- Solve Ratio and Proportion Problems

Half Term 6
- Rates (Compound Units such as Speed and Density)
- Probability

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
- Self and peer assessment - Weekly exit tickets (a check of understanding of key skills, marked by teacher) - Termly teacher marked assessments - Regular whiteboard work - Live marking by teacher in lesson	- UKMT (UK Mathematics Trust) Junior Challenge– all students have the opportunity to partake in this nationwide problem solving competition) - Dr Frost Maths for extra practice - Research 'Goldbach's Conjecture'	- Links to famous mathematicians made throughout. - Maths and Money unit looks at financial maths including interest - 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	- Curriculum Maps to show sequencing of topics - Retrieval starters promotes revisiting of skills taught in previous lessons - Many topics building on knowledge from Y7 and Y8.	- Problem Solving opportunities in all lessons - UKMT Challenge (UK Mathematics Challenge) questions used on a regular basis in lesson - Questioning used to challenge mathematical thinking - High quality communication of mathematical reasoning is embedded into all lessons