

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)
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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

- 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

Super curriculum opportunities / extra-curricular activities

- 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'

Cultural Capital, SMSC, Careers and Futures

- 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

- Exit tickets designed to address predicted misconceptions.
- Whiteboard questions used in lessons have misconceptions embedded throughout

Connecting New Knowledge

- 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.

Challenge for all

- 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