

## 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	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> <li>• Self and peer assessment</li> <li>• Weekly exit tickets (a check of understanding of key skills, marked by teacher)</li> <li>• Termly teacher marked assessments</li> <li>• Regular whiteboard work</li> <li>• Live marking by teacher in lesson</li> </ul>	<ul style="list-style-type: none"> <li>• UKMT (UK Mathematics Trust) Junior Challenge— all students have the opportunity to partake in this nationwide problem solving competition)</li> <li>• Dr Frost Maths for extra practice</li> <li>• Research 'Goldbach's Conjecture'</li> </ul>	<ul style="list-style-type: none"> <li>• Links to famous mathematicians made throughout.</li> <li>• Maths and Money unit looks at financial maths including interest</li> <li>• Problem Solving – a transferrable skill for many careers.</li> </ul>

Common misconceptions	Connecting New Knowledge	Challenge for all
<ul style="list-style-type: none"> <li>• Exit tickets designed to address predicted misconceptions.</li> <li>• Whiteboard questions used in lessons have misconceptions embedded throughout</li> </ul>	<ul style="list-style-type: none"> <li>• Curriculum Maps to show sequencing of topics</li> <li>• Retrieval starters promotes revisiting of skills taught in previous lessons</li> <li>• Many topics building on knowledge from Y7 and Y8.</li> </ul>	<ul style="list-style-type: none"> <li>• Problem Solving opportunities in all lessons</li> <li>• UKMT Challenge (UK Mathematics Challenge) questions used on a regular basis in lesson</li> <li>• Questioning used to challenge mathematical thinking</li> <li>• High quality communication of mathematical reasoning is embedded into all lessons</li> </ul>