

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

**Half Term 1**

- Ratio and Scale
- Multiplicative Change (Proportion)
- Multiplying and Dividing Fractions

**Half Term 2**

- Representing Data
- Working in the Cartesian Plane (Graphs)
- Sets and Probability
- Sequences

**Half Term 3**

- Brackets and Equations
- Indices

**Half Term 4**

- Fractions and Percentages
- Standard Index Form

**Half Term 5**

- Number Sense (Rounding and Conversions)
- Angles in Parallel Lines and Polygons

**Half Term 6**

- Area of Trapezia and Circles
- Measures of Location and Spread (Mean, Median, Mode, Range)

<b>Feedback, Retrieval &amp; Assessment</b>	<b>Super curriculum opportunities / extra-curricular activities</b>	<b>Cultural Capital, SMSC, Careers and Futures</b>
<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>• Use Google Maps to see how a map scale is applied</li> <li>• Dr Frost Maths for extra practice</li> </ul>	<ul style="list-style-type: none"> <li>• Links to famous mathematicians made throughout.</li> <li>• Learning about metric conversions, applicable for many practical jobs.</li> <li>• Problem Solving – a transferrable skill for many careers.</li> </ul>

<b>Common misconceptions</b>	<b>Connecting New Knowledge</b>	<b>Challenge for all</b>
<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>• Knowledge organisers stuck in at the start of each new topic and referred to throughout the unit</li> <li>• Retrieval starters promotes revisiting of skills taught in previous lessons</li> <li>• Many units building on knowledge from Y7.</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> </ul>