

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

Half Term 1

- Congruence, similarity
- Transformations
- Pythagoras and Trigonometry

Half Term 2

- Solving linear equations and inequalities
- (Higher tier only – solving quadratic equations by factorising)
- Simultaneous equations (higher also non-linear)

Half Term 3

- Angles relationships and bearings
- Circles – area, circumference, sectors, arcs
- Vectors

Half Term 4

- Ratios and fractions
- Percentages
- Probability

Half Term 5

- Collecting, representing and interpreting data
- Non-calculator methods (surds, bounds, estimation)

Half Term 6

- Prime factorisation and sequences
- Indices, roots and standard form

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> • Self and peer assessment • Regular exit tickets (a check of understanding of key skills, marked by teacher) • Termly teacher marked assessments • Live marking by teacher in lesson 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Exit tickets designed to address predicted misconceptions. • Whiteboard questions used in lessons have misconceptions embedded throughout • Some use of diagnostic questions 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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