

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)

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)
- Use Google Maps to see how a map scale is applied
- Dr Frost Maths for extra practice

Cultural Capital, SMSC, Careers and Futures

- Links to famous mathematicians made throughout.
- Learning about metric conversions, applicable for many practical jobs.
- 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
- Knowledge organisers stuck in at the start of each new topic and referred to throughout the unit
- Retrieval starters promotes revisiting of skills taught in previous lessons
- Many units building on knowledge from Y7.

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