

Mathematics Curriculum Map (Year 7)

[2022 – 2023]

The identified key concepts are taught for depth both at procedural knowledge level but more importantly the application of these key skills



Prime Numbers & Proof

HCF/LCM, Product of Prime Factors; using counterexamples

Sets & Probability

including Venn Diagrams, Sample Spaces

Developing Number Sense

Mental methods and Estimation

Developing Geometric Reasoning

Angle facts, Polygons and Parallel Lines

Assessment 2

Constructing, Measuring & Geometric Notation

Angles; Pie Charts; Using compasses

Misconceptions from assessment 1 will inform part of retrieval work to further strengthen knowledge and skills.

Blocks studied in Year 7 are the key concepts identified for a smooth key stage transition as we prepare for GCSE. All students can access both the expected and extending curriculum model.

Year 7 – Term 3 - Formal assessment 2 feedback will be given and supported through bespoke intervention post assessment and inform further retrieval opportunities.

Assessment 1

Solving Addition & Subtraction Problems

Perimeter; frequency trees; bar graphs; two-way tables

Solving Multiplication & Division Problems

Mean; area; order of operations; metric conversions

Fractions & Percentages of Amounts

Directed Number

Four operations; substitution; solving two-step equations

Addition & Subtraction of Fractions

including Mixed Numbers

Class work will be supported throughout by homework tasks, targeting both current topics being studied and retrieval opportunities.

Year 7 – Term 2 - Formal assessment 1 feedback will be given and supported through bespoke intervention post assessment..

Year 7 – Term 2 - Flash back opportunities will further support the development a students literacy base.

Fraction, Decimal & Percentage Equivalence

Place Value & Ordering

Comparing integers and decimals; rounding

Equality & Equivalence

Simplifying expressions and solving one-step equations

Baseline Assessment

Algebraic Notation

Function machines and understanding expressions

Sequences

Continuing linear and non-linear sequences

Year 7 – Term 1 - At the end of each block, students will complete a summative assessment to check knowledge and understanding, with the teacher will providing opportunities to secure knowledge and understanding following these assessments.

Year 7 – Term 1 - Flash back opportunities will inform part of your retrieval work to further strengthen procedural knowledge base from KS2