Year 10 – Mathematics (F&H)

WRM – (V3)



Curriculum Overview

In Year 10, students begin their GCSE Mathematics studies, building on the knowledge and skills developed throughout Key Stage 3. Following the White Rose Maths scheme, students studying Foundation and Higher Maths cover topics in the same order, with lessons suited to the level of each group. This helps all students build their confidence, strengthen their mathematical understanding and develop the skills they need to succeed in their GCSE examinations.

What Students Will Learn

Autumn Term – Algebra, Number and Proportion

Students develop their algebraic skills through manipulating expressions, solving equations and inequalities, and working with quadratic expressions. They also strengthen their understanding of percentages, ratio, scale and fractions.

Spring Term – Number, Graphs, Probability and Statistics

Students practise non-calculator methods, straight-line graphs and probability. They also explore rounding, estimation, perimeter, area, volume, interpreting data and non-linear graphs.

Summer Term – Geometry, Number and Algebra

Students study angles, graphs and diagrams, vectors, factors, powers and surds. They also develop their understanding of Pythagoras' theorem, trigonometry and simultaneous equations, at a level appropriate to their GCSE tier.

Assessment and Retrieval of Learning

Students complete regular assessments approximately one week after finishing each chapter. This allows time to revisit their learning while helping teachers identify and address misconceptions promptly, before moving further into the curriculum.

Termly assessments cover current and previously taught topics, helping students retain knowledge and allowing teachers to monitor progress throughout the year.

End-of-Year GCSE Assessments

At the end of Year 10, students will sit **GCSE Mathematics examination papers appropriate to their Foundation or Higher tier**, including calculator and non-calculator papers. These assessments will evaluate their progress, develop examination techniques and identify areas for improvement ahead of Year 11.

How Parents and Carers Can Support Learning

Parents and carers can continue to support the positive learning habits established during Key Stage 3. Encouragement, regular practice and an interest in their child's progress remain valuable.

- **Autumn Term:** Explore percentages, fractions and ratio through shopping, discounts and everyday calculations.
- **Spring Term:** Encourage mental arithmetic, estimation and interpreting graphs or numerical information.
- **Summer Term:** Support regular revision and practice with GCSE-style questions, including calculator and non-calculator work.

Supporting Learning Throughout the Year: Encourage consistent homework and revision routines, revisiting earlier topics and reflecting on assessment feedback. As GCSE assessments approach, supporting regular practice and recognising effort and progress can help students develop confidence, independence and effective examination skills.