Mathematics

Edexcel GCSE Specification

Penwortham Girls' High School

Introduction:

The new Mathematics GCSE (9-1) course contains an increase in breadth and depth of content. It aims to enable pupils to:

- Develop fluent knowledge, skills and understanding of mathematical methods and concepts
- Acquire, select and apply mathematical techniques to solve problems
- Reason mathematically, make deductions and inferences, and draw conclusions
- Comprehend, interpret and communicate mathematical information in context

Description of the course:

The course covers the following areas of Mathematics: Number, Algebra, Ratio, proportion and rates of change, Geometry and measures, Probability and Statistics.
The qualification will be graded and certificated on a nine-grade scale from 9 to 1 where 9 is the highest grade.
Two tiers are available: Foundation tier: grades 1 to 5, Higher tier: grades 4 to 9 (grade 3 allowed).

How you will learn:

Pupils will undertake a range of learning tasks throughout the duration of the course. These will include independent learning with a focus on key exam questions and techniques and also collaborative activities where ideas are discussed and understanding is developed. Pupils will be encouraged to continually refine and improve their solutions to independent learning tasks to ensure maximum progression.

Assessment

For the final GCSE, pupils will be assessed over 3 written examinations, one non-calculator paper and 2 calculator papers, each lasting 90 minutes. During years 9, 10 and 11 pupils will be formally assessed each half term, using assessment materials that include the new GCSE content.

Using this qualification:

Students can progress from this qualification to level 3 qualifications in numerate disciplines, such as: A level Mathematics and Further Mathematics as well as A levels in the Sciences, Geography, Psychology, Economics and other qualifications that require mathematical skills, knowledge and understanding. This qualification also supports further training and employment where mathematical skills are required.

Subject Leader: Mrs. E. Sweeney