



Head of Department – Miss Fail

Mathematics

What will pupils gain from this subject?

Mathematics is one of the most important subjects you will learn at school, it is present in every part of life and understanding it will make the everyday easy. From telling the time to bus timetables, the household budget and your wages, baking a cake to mixing concrete, knowing the Mathematics we teach you will give you the skills to succeed.

Mathematics is essential to everyday life, critical to Science, Technology Engineering, and necessary for financial literacy and most forms of employment. Students will gain an understanding of the use of Mathematics in the world around them by developing an appreciation for both the beauty and power of Mathematics. We aim to develop this alongside a sense of enjoyment and curiosity about the subject by building confidence and understanding of basic numeracy and reasoning.

Year 7 are taught in form classes but from Year 8 onwards Mathematics classes are set by ability and prior attainment and taught by enthusiastic and engaging Mathematics teachers. Our high-quality Mathematics education provides our students with the foundation to understand and process real world problems, whilst also furthering their numeracy skills. We aim to develop both creative and methodical thinkers who will use reason and procedures to tackle new and unfamiliar problems in school and beyond.

The Content of Key Stages

Key Stage 3

Students study a differentiated scheme of work that covers a range of new topics and builds on areas previously encountered at KS2. Topics are covered in preparation for Welsh Government Reasoning and Procedural tests sat towards the end of each academic year. These topics are taught with an emphasis on their application and use in a real world context, to make Mathematics both relevant and enjoyable.

Key Stage 4 (GCSE)

Again students study a differentiated scheme of work depending on their prior attainment and current work ethics. Topics are taught in preparation for WJEC Mathematics & Numeracy GCSE examinations. A large number of students also gain the opportunity of studying for an additional GCSE in the form of Statistics, where we currently follow the Edexcel syllabus.

Key Stage 5 (AS/A level)

Students follow the WJEC Mathematics A level syllabus incorporating Pure Mathematics, Statistics and Mechanics, with an option for a Double Award consisting additional Further Pure with advanced Statistics and Mechanics.