Mathematics Department

Welcome

We encourage students to develop confidence in recognising the importance of Mathematics in their own lives and in society. By nurturing a positive attitude towards Mathematics and logical thinking we prepare students to make informed decisions to enable them to solve problems using the skills and knowledge acquired during their Mathematics lessons. Pupils are also encouraged to take part in other enrichment activities such as The UK Maths Challenge, Chess Club and maths workshops when the opportunity arises during the school year.

Our aims are:

- To provide enjoyment and creative stimulation in a safe environment;
- To help ALL students gain confidence in their own ability and achieve success;
- Develop knowledge, skills and understanding of mathematical methods and concepts including:
  1. Number
  2. Algebra
  3. Geometry
  4. Measure
  5. Statistics
  6. Probability
  7. Use their knowledge and understanding to make connections between mathematical concepts
  8. Apply the functional elements of mathematics in everyday and real-life situations.

Key Stage 3

Students have eight lessons of Mathematics over a fortnight in years 7 and 8.
In addition to learning new concepts, skills and mathematical procedures, pupils are given the opportunity to:

- Acquire and use problem-solving strategies
- Select and apply mathematical techniques and methods in mathematical, every day and real-world situations
- Reason mathematically, make deductions and inferences and draw conclusions
- Interpret and communicate mathematical information in a variety of forms appropriate to the information and context

Key Stage 4

Students have ten lessons of Mathematics over a fortnight in years 9, 10 and 11, giving three years to cover the GCSE specification and preparing for examination.

Following on from the foundations built at Key Stage 3, all students follow the GCSE course, and will be entered for either Foundation Tier or Higher Tier Mathematics. We are also able to provide Entry Level Certification.

The course provides excellent preparation for higher study and employment in the field of Science, Engineering, Medicine, Manufacturing, Business and Commerce. Many of our students continue with Mathematics at a Higher Level by taking Mathematics at A Level and some at Further Mathematics.