



Intent Curriculum Road Map

Mathematics is essential for everyday life and is needed to understand our world.

- To learn how maths relates to science, technology and engineering, and the advances in these fields on which our economic future depends.
- To learn how to be creative in solving problems and to be confident and fluent in developing and using the skills in real life.

In Year 11...

- I will explore mathematics in abstract and real-world situations and use it to solve problems.
- I will see how mathematics stems into other fields such as science, engineering and geography
- I will apply my mathematics to solve problems in these areas as well as understand that I will be transferring my skills into those subjects.
- I will use my reasoning skills to justify my solutions

In Year 10...

- I will comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.
- As a Higher tier student I will be working on more abstract concepts in algebra and learning to express my solutions in set formats such as Surd Form.
- As a Foundation tier student I will apply my skills to real world problems and use my mathematics for everyday situations.

In Year 9...

- I will be meet the three assessment objectives: use and apply standard techniques; reason, interpret and communicate mathematically; and solve problems mathematically and in other contexts.
- As a Higher tier student I will be using my algebra skills to solve complex problems in many abstract situations.
- As a Foundation tier student I will be mastering my reasoning skills, especially in number, ratio and proportion

In Year 8...

- I will develop further understanding of mathematical methods and concepts.
- I will be exposed to more complex and demanding algebra content where
- I will need to acquire, select and apply mathematical techniques to solve problems.

In Year 7...

- I will study will incorporate number and data skills with an introduction to algebra, probability, ratio and proportion, and graphs.
- I will be introduced to real-world problems that will require me to use my mathematical knowledge to solve.