Daubeney Academy

Mathematics
Curriculum Road Map

Intent

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 bring together all of my prior learning and consolidate any gaps in my mathematics.
- ❑ 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 be given opportunities to 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 required to 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 build upon progress made in Key Stage 2.
- ❑ A large proportion of the content 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.

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