MATHEMATICS CURRICULUM MAP



Our subject vision:

Mathematics is a language that we can use to unlock and understand so many different elements of our natural and constructed world. Beyond the intricate beauty of Pure Mathematics itself, it also provides important tools for work in a plethora of different fields. Fitzharrys students will learn fluency in this elegant gateway language as well as the wider Mathematical themes of visualising and representing ideas differently, organising information, generalising, conjecturing and modelling to name but a few.

Being a Mathematician is a way of being; it is a way of interacting with the universe; it is a way of thinking. Fitzharrys students will become curious about the fascinating construct that is Maths and how they can use it to solve problems and explore ideas.

Here at Fitzharrys, students are stretched and supported dynamically to achieve their very best; we use diagnostic assessment to ensure that all students are learning the concepts most pivotal to their progress. We build firm foundations that allow students to take their next Mathematical steps.

Fitzharrys students know that they are learning; progress in Maths is visible, celebrated and shared regularly with home. We ensure our students have mastered the skills and consumed the knowledge they will need for their futures, no matter what course those futures take.

How this document works:

This Curriculum Map will show you everything we do in Maths. It shows the learning journey from year 7 to year 11 and beyond.

At each point it will show you what is covered and how it will be assessed. Click on each topic and it will automatically take you to an explanation of why we learn it.

If you have any further questions, contact Miss Alison Twyford - Head of Maths

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Aspiration	We firmly believe that Maths is a fascinating and elegant language that everyone can enjoy learning. Not only is it beautiful, but it is also a gateway to so many other subjects and futures for students. We intend to equip all students with a confident grasp of the knowledge, skills and understanding of mathematical concepts that they will need for their futures. Knowledge: Maths is a series of building blocks, every new block relying on the soundness of the one beneath it for a firm footing to the next. Our diagnostic curriculum ensures that we enable students to fill gaps and build new bricks in every lesson. Teachers are empowered to plan for individual student needs and aim high for all. Skills: Students will learn to model situations, to generalise patterns and create rules. They will learn to follow Mathematical instructions, to present information effectively and to analyse data. These are just some of the transcendent skills that students will take forward into their lives after studying Maths at Fitzharrys. Understanding: Students will leave Fitzharrys Maths lessons with a sense of achievement, and a clear understanding of their progress. They will have a confidence with numbers, which is essential to all walks of life. Students will be able to communicate and analyse data effectively and have the versatility to apply their Mathematical skills to varied future contents. They will have an understanding of our number system, shapes, proportionality, algebra and statistics; most importantly they will know how all these amazing elements connect and intertwine.
Opportunity	Within the classroom: In Maths lessons, students will regularly check their understanding both at the beginning and end of topics. This not only allows us to provide the optimum balance of challenge and scaffold as teachers, but it also encourages students to be strong independent learners. Our curriculum spirals through the different areas of Maths - Geometry and Measures, Number, Algebra, Statistics, Ratio & Proportion. There is a strong focus on knowledge (Maths Memory) and skills to ensure strong foundations which enable application to new contexts.
	 Beyond the classroom: Alongside the curriculum students can participate in: National Maths Challenges Girls in Maths days Mathematical lectures Further Maths GCSE Mathematical Student mentoring or leadership opportunities
Integrity	 Knowledge: Students will have the Mathematical knowledge to empower them to see statistics and finances clearly, understanding how people can use them to influence and even manipulate others. Skills: The skills of modelling, visualising and presenting numerical arguments will allow students to express themselves, explore complex ideas and understand others' ideas and perspectives.
	themselves, explore complex ideas and understand others' ideas and perspectives. Understanding: The world is full of Maths, a firm understanding of what you are consuming helps you to craft intelligent and measured opinions. Students will not be taken in by questionable statistics or duped by dubious deals. They will have an understanding of finances and statistics that will support them to be active, knowledgeable citizens who can make measured decisions in their future.















