

Herschel Grammar School
Curriculum Overview 2025/26

Curriculum Intent

“Helping you to become the best Mathematician you can be.”

Curriculum Impact

“Providing you with the confidence to learn difficult new skills and apply them to solve unfamiliar problems. Something that should be applicable in any career.”

Year group	12
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Rationale for sequencing	Careful thought is required such that requisite material from A Level Mathematics has been covered before embarking on some Further Mathematics content. In Year 12 most of the Mechanics topics rely upon content in the Year 12 Mathematics A level, whereas the Statistics is more stand alone, hence the consecutive teaching of Statistics and Mechanics rather than parallel teaching.
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Term 1	
Half term 1	Half term 2
Core Pure • Proving sums by Induction • Introduction to Complex Numbers • Roots of Polynomials Statistics • Discrete random variables. • Discrete Distributions	Core Pure • Matrices and Transformations • Matrices and their Inverses Statistics • Bivariate Data – Correlation and regression
Term 2	
Half term 1	Half term 2
Core Pure • Sequences and Series • Complex Numbers - Geometry Statistics	Core Pure • Vectors and 3D Space Mechanics • Forces and Motion, including Friction

Further Mathematics Curriculum Overview 2025/26

• Chi-squared tests Mechanics • Dimensional Analysis • Impulse and Momentum	• Work Power and Energy
Term 3	
Half term 1	Half Term 2
Core Pure • Vectors Mechanics • Momentum and Impulse	Core Pure • Differentiation • Hyperbolic Functions Mechanics • Centre of Mass

Key Assessment Plans:	
Term 1	Late October / Early November 1 hour Pure 1 hour Stats Minor December 1 hour Pure 1 hour Stats Minor
Term 2	
Term 3	End of Year Exams – Late June 2.5 hours Core Pure 1.5 hours Applied

Through education, we have the privilege of engaging directly with children and young people who:

- are passionate about the natural world

- want to do their best to protect it
- can influence their wider communities

Throughout this document, whenever the following icon is used , it indicates that the teaching and learning is linked to one or more of the following:

- nature
- the causes and impacts of climate change
- careers in the green economy
- the importance of sustainability