

**Maths at Cox Green
Curriculum Plan**

**Key Stage 5
Year 12**

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Core Pure Mathematics	Core Pure Mathematics	Further Pure Mathematics	Further Pure Mathematics	Decision 1	Mock Examination
Complex numbers Series Algebra and functions Calculus Assessment: End of unit assessment Regular on-going assessment of topics.	Matrices Proof Vectors Assessment: End of unit assessment Regular on-going assessment of topics.	Coordinate systems Inequalities Further Trigonometry Further numerical methods Further vectors Assessment: End of unit assessment Regular on-going assessment of topics.	Further numerical methods Further vectors Assessment: End of unit assessment Regular on-going assessment of topics.	Algorithm and graph theory Linear programming Critical path analysis Assessment: End of unit assessment Regular on-going assessment of topics.	Revision for mock examination Feedback Start of Year 13 topics. Assessment: Mock examination

SMSC/British Values:

How it is taught:

Exploration, investigation.

Enjoyment of success / achievement / coping with short term failure + a longer term realisation of each student's strengths and weaknesses.

Encouragement of self-discipline.

Problem solving approach – seeking systematic order to solve a problem, breaking a task down into more manageable parts.

Critical thinking – skills of analysis, evaluation and reflection.

We encourage collaborative learning in the classroom – in the form of listening and learning from each other

We explore and evaluate the use of Statistics to inform or mislead us our current data obsessed society.

Percentage work across Key Stage 3 and 4 is clearly linked to current financial topics.



**COX
GREEN
SCHOOL**

Through the work we do:

Value each contribution – insist students listen and respect each other.

Prepare lessons well to meet student needs – if they feel valued, they are more likely to value us.

Get to know each student well.

Create the atmosphere and the opportunity for them to ask questions.

Answer their questions – or students will not ask any and their education will be that much poorer.

Praise and encourage.

Build their confidence.

Have high expectations of tolerance, behaviour, work output...

We exhibit pupils work in maths classrooms - to share their good practice and celebrate achievement through creating informative displays.

Enrichment/Extra Curriculum:

- *After School Sessions*

Maths at Cox Green

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Curriculum Plan

**Key Stage 5
Year 13**

Core 3 continued.	Core 4.	C4 Past paper practice and assessment.	Mechanics 1.	Exam Preparation.	
Transforming graphs of functions. Trigonometry. Further trig identities and applications. Differentiation. Assessment: C3 Past paper practice and assessment .	Partial fractions. Coordinate geometry in the (x,y) plane. The binomial expansion. Differentiation. Vectors.	Integration.	Kinematics of a particle. Dynamics of a particle. Statics of a particle. Moments. Vectors.	Assessment: Core 3, Core 4, Mechanics 1. Past papers for practice and assessment using the 'exam solutions' website. Topic based questions prior to the A Level examinations.	

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