

## A Level Mathematics

# Scheme of Learning Overview

### Year 12

Unit	Strand	Hours
<b>Autumn half term 1</b>		
Unit 1: Algebra and functions	Pure (AS)	27
Unit 2: Coordinate geometry in the (x, y) plane	Pure (AS)	13
Unit 3: Further algebra	Pure (AS)	15
Unit 4: Trigonometry	Pure (AS)	16
Unit 5: Vectors (2D)	Pure (AS)	14
Unit 6: Differentiation	Pure (AS)	12
Unit 7: Integration	Pure (AS)	11
Unit 8: Exponentials and logarithms	Pure (AS)	12
Unit 6: Quantities and units in mechanics	Mech (AS)	3
Unit 7a: Kinematics 1 (constant acceleration)	Mech (AS)	4
Unit 7b: Kinematics 1 (constant acceleration)	Mech (AS)	6
Unit 1: Statistical sampling	Stats (AS)	3
Unit 2a: Data presentation and interpretation	Stats (AS)	4
<b>Autumn half term 2</b>		
Unit 3: Probability	Stats (AS)	3
Unit 2b: Data presentation and interpretation	Stats (AS)	8
<b>Spring half term 1</b>		
Unit 4: Statistical distributions	Stats (AS)	5
Unit 8a: Forces & Newton's laws	Mech (AS)	4
<b>Spring half term 2</b>		
Unit 5a: Statistical hypothesis testing	Stats (AS)	2
Unit 8b: Forces & Newton's laws	Mech (AS)	6
<b>Summer half term 1</b>		
Unit 5b: Statistical hypothesis testing	Stats (AS)	5
Unit 9: Kinematics 2 (variable acceleration)	Mech (AS)	7
Revision (AS level)	Revision	0

### Summer half term 2

Mock Examination (AS level)	Exams	0
Unit 1: Proof	Pure	3
Unit 2: Algebraic and partial fractions	Pure	5

## Year 13

Unit	Strand	Hours
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### Autumn half term 1

Unit 3: Functions and modelling	Pure	10
Unit 4: Series and sequences	Pure	9
Unit 5: The binomial theorem	Pure	7
Unit 1: Regression and correlation	Stats	7
Unit 4: Moments	Mech	5

### Autumn half term 2

Unit 6: Trigonometry	Pure	24
Unit 7: Parametric equations	Pure	5
Unit 2: Probability	Stats	7
Unit 5: Forces at any angle	Mech	6

### Spring half term 1

Unit 8: Differentiation	Pure	16
Unit 9: Numerical methods - see Integration (part 2) for the trapezium rule	Pure	8
Unit 3a: The Normal distribution	Stats	5
Unit 6: Applications of kinematics	Mech	5

### Spring half term 2

Unit 10: Integration (part 1)	Pure	9
Unit 11: Integration (part 2)	Pure	19
Unit 3b: The Normal distribution	Stats	5
Unit 7: Applications of forces	Mech	8

### Summer half term 1

Unit 12: Vectors (3D)	Pure	5
Unit 3c: The Normal distribution	Stats	6
Unit 8: Further kinematics	Mech	6
Revision (A level)	Revision	0

### Summer half term 2

Formal examination (A level)	Exams	0
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