A-level Maths 2017-2019

Course: Edexcel AS and A level Mathematics **Planned time:** 289 hours

Scheme explorer

Specification resources

Pure

Statistics / Mechanics

Endorsed Resources

Scheme of work overview

Acknowledgements

Year 1

Autumn half term 1 — 23h

Pure (AS)	Unit 1: Algebra and functions	13h
Pure (AS)	Unit 2: Coordinate geometry in the (x, y) plane Prereq: Pure (AS) Unit 1: Algebra and functions	10h

Autumn half term 2 — 27h

Pure (AS)	Unit 3: Further algebra Prereq: Pure (AS) Unit 1: Algebra and functions	8h
Stats (AS)	Unit 1: Statistical sampling	1h
Stats (AS)	Unit 2a: Data presentation and interpretation	4h
Stats (AS)	Unit 2b: Data presentation and interpretation	5h
Mech (AS)	Unit 6: Quantities and units in mechanics	1h
Mech (AS)	Unit 7a: Kinematics 1 (constant acceleration)	2h
Mech (AS)	Unit 7b: Kinematics 1 (constant acceleration)	6h

Spring half term 1 — 23h

Pure (AS)	Unit 4: Trigonometry Prereq: Pure (AS) Unit 1: Algebra and functions	8h
Pure (AS)	Unit 5: Vectors (2D) 2 Prereqs	6h
Stats (AS)	Unit 3: Probability	4h
Stats (AS)	Unit 4: Statistical distributions Prereq: Stats (AS) Unit 3: Probability	5h

Spring half term 2 — 19h

Pure (AS)	Unit 6: Differentiation 3 Prereqs	6h
Pure (AS)	Unit 7: Integration 2 Prereqs	6h
Stats (AS)	Unit 5a: Statistical hypothesis testing	2h
Stats (AS)	Unit 5b: Statistical hypothesis testing	5h

Summer half term 1 — 18h

Pure (AS)	Unit 8: Exponentials and logarithms Prereq: Pure (AS) Unit 1: Algebra and functions	7h
Mech (AS)	Unit 8a: Forces & Newton's laws Prereq: Mech (AS) Unit 6: Quantities and units in mechanics	2h
Mech (AS)	Unit 8b: Forces & Newton's laws Prereq: Mech (AS) Unit 6: Quantities and units in mechanics	5h
Mech (AS)	Unit 9: Kinematics 2 (variable acceleration) 3 Prereqs	4h
	Revision (AS level)	0h
	Formal examination (AS level)	0h

Summer half term 2 — 8h

Pure	Unit 1: Proof Prereq: Pure (AS) Unit 3: Further algebra	3h
Pure	Unit 2: Algebraic and partial fractions Prereq: Pure (AS) Unit 3: Further algebra	5h

Year 2

Autumn half term 1 — 38h

Pure	Unit 3: Functions and modelling Prereq: Pure (AS) Unit 1: Algebra and functions	10h
Pure	Unit 4: Series and sequences	9h
Pure	Unit 5: The binomial theorem 2 Prereqs	7h
Stats	Unit 1: Regression and correlation 4 Prereqs	7h
Mech	Unit 4: Moments 2 Prereqs	5h

Autumn half term 2 — 42h

Pure	Unit 6: Trigonometry 2 Prereqs	24h
Pure	Unit 7: Parametric equations 3 Prereqs	5h
Stats	Unit 2: Probability Prereq: Stats (AS) Unit 3: Probability	7h
Mech	Unit 5: Forces at any angle 5 Prereqs	6h

Spring half term 1 33h

Pure	Unit 8: Differentiation 4 Prereqs	16h
Pure	Unit 9: Numerical methods - see Integration (part 2) for the trapezium rule 6 Prereqs	7h
Stats	Unit 3a: The Normal distribution 4 Prereqs	5h
Mech	Unit 6: Applications of kinematics 5 Prereqs	5h

Spring half term 2 41h

Pure	Unit 10: Integration (part 1) 4 Prereqs	9h
Pure	Unit 11: Integration (part 2) 4 Prereqs	19h
Stats	Unit 3b: The Normal distribution 4 Prereqs	5h
Mech	Unit 7: Applications of forces 7 Prereqs	8h

Summer half term 1 17h

Pure	Unit 12: Vectors (3D) Prereq: Pure (AS) Unit 5: Vectors (2D)	5h
Stats	Unit 3c: The Normal distribution 4 Prereqs	6h
Mech	Unit 8: Further kinematics 4 Prereqs	6h
	Revision (A level)	0h

Summer half term 2 0h

	Formal examination (A level)	0h