Edexcel AS and A level Mathematics

# Scheme of work overview

## Year 1

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| --- | --- | --- | --- |
| Unit | Strand | Teacher | Hours |
| Autumn half term 1 |  |  |  |
| Unit 1: Algebra and functions | Pure (AS) |  | 6 |
| Unit 2: Coordinate geometry in the (x, y) plane | Pure (AS) |  | 6 |
| Unit 3: Further algebra | Pure (AS) |  | 7 |
| Unit 1: Statistical sampling | Stats (AS) |  | 2 |
| Unit 2a: Data presentation and interpretation | Stats (AS) |  | 2 |
| Unit 2b: Data presentation and interpretation | Stats (AS) |  | 2 |
| Unit 3: Probability | Stats (AS) |  | 2 |
| Unit 4: Statistical distributions | Stats (AS) |  | 2 |
| Unit 5a: Statistical hypothesis testing | Stats (AS) |  | 2 |
| Unit 5b: Statistical hypothesis testing | Stats (AS) |  | 2 |
| Autumn half term 2 |  |  |  |
| Unit 4: Trigonometry | Pure (AS) |  | 6 |
| Unit 5: Vectors (2D) | Pure (AS) |  | 6 |
| Unit 6: Differentiation | Pure (AS) |  | 8 |
| Unit 6: Quantities and units in mechanics | Mech (AS) |  | 2 |
| Unit 7a: Kinematics 1 (constant acceleration) | Mech (AS) |  | 4 |
| Unit 7b: Kinematics 1 (constant acceleration) | Mech (AS) |  | 4 |
| Unit 8a: Forces & Newton’s laws | Mech (AS) |  | 6 |
| Spring half term 1 |  |  |  |
| Unit 7: Integration | Pure (AS) |  | 9 |
| Unit 8: Exponentials and logarithms | Pure (AS) |  | 6 |
| Unit 8b: Forces & Newton’s laws | Mech (AS) |  | 6 |
| Spring half term 2 |  |  |  |
| Unit 9: Kinematics 2 (variable acceleration) | Mech (AS) |  | 7 |
| Revision (AS level) | Revision |  | 30 |
| Summer half term 1 |  |  |  |
| Formal examination (AS level) | Exams |  | 0 |
| Summer half term 2 |  |  |  |
| Unit 1: Proof | Pure |  | 3 |
| Unit 3: Functions and modelling | Pure |  | 10 |
| Unit 2: Algebraic and partial fractions | Pure |  | 5 |
| Unit 4: Series and sequences | Pure |  | 9 |
| Unit 5: The binomial theorem | Pure |  | 7 |

## Year 2

|  |  |  |  |
| --- | --- | --- | --- |
| Unit | Strand | Teacher | Hours |
| Autumn half term 1 |  |  |  |
| Unit 6: Trigonometry | Pure |  | 24 |
| Unit 7: Parametric equations | Pure |  | 5 |
| Unit 8: Differentiation | Pure |  | 16 |
| Unit 1: Regression and correlation | Stats |  | 7 |
| Unit 2: Probability | Stats |  | 7 |
| Unit 3a: The Normal distribution | Stats |  | 5 |
| Autumn half term 2 |  |  |  |
| Unit 9: Numerical methods - see Integration (part 2) for the trapezium rule | Pure |  | 8 |
| Unit 10: Integration (part 1) | Pure |  | 9 |
| Unit 11: Integration (part 2) | Pure |  | 19 |
| Unit 3b: The Normal distribution | Stats |  | 5 |
| Unit 3c: The Normal distribution | Stats |  | 6 |
| Unit 4: Moments | Mech |  | 5 |
| Unit 5: Forces at any angle | Mech |  | 6 |
| Spring half term 1 |  |  |  |
| Unit 12: Vectors (3D) | Pure |  | 5 |
| Unit 6: Applications of kinematics | Mech |  | 5 |
| Unit 7: Applications of forces | Mech |  | 8 |
| Unit 8: Further kinematics | Mech |  | 6 |
| Spring half term 2 |  |  |  |
| Revision (A level) | Revision |  | 0 |
| Summer half term 1 |  |  |  |
|  |  |  | 0 |
| Summer half term 2 |  |  |  |
| Formal examination (A level) | Exams |  | 0 |