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| **Subject Title** | Mathematics |
| **Course Code** | 9MA0 | **Exam board** | Edexcel | **Qualification** (GCSE, A-Level, etc.) | A-Level |
| **Units covered satisfactorily** | **PURE content** | **Units NOT covered satisfactorily** | Statistics and Mechanics |
| **Your final grade will be informed through an assessment of evidence from:***Final Examination – 33%*HT2 Christmas mocks: PURE paper (100 marks), - 33% APPLIED AS paper (60 marks) - 10%HT3 online assessment on Dr Frost, PURE exam paper 100 marks) - 33%Recorded homework on Dr Frost - 40%Pearsons unit tests from year 12 - 20%In class quiz:Quiz 1: Integration by inspection (8 marks) - 5%Quiz 2: integration by parts (8 marks) - 5%Quiz 3: integration by substitution (8 marks) - 5%Quiz 4: integration with partial fractions (8 marks) - 5%All quizzes total percentage – 20% |
| **Primary source (details of the exam / portfolio etc)** |
| *Examination – 2 hours* *As the pure content and some parts of Statistics was covered, I have decided that the paper will cover Pure content and a limited content on Statistics. No mechanics will be covered in the examination.*Two-hour calculator paper, total of 100 marks. The details of units covered is outlined below.**PURE content covered:*** Quadratics: solving quadratic equations, completing the square, the discriminant, modelling with quadratics
* Circles: Mid points and bisectors, equation of a circle, using tangent and cord properties, circles and triangles
* Exponentials and logarithms
* Algebraic methods: algebraic fractions, partial fractions, algebraic division
* Sequences and series: arithmetic/geometric sequences and series, sum to infinity, sigma notation and modelling with series
* Binomial expansion (year 2)
* Radians, arc length, area of a sector/segment, solving trigonometric equations and small angle approximation, addition formulae, double angle formulae
* Differentiation: trig functions, logs and exponentials, chain, product and quotient rules, using second derivative and rates of change
* Integration: Integrating standard functions, using trig identities, integration by substitution and parts and finding areas

**Statistics content:*** Regression, correlation and hypothesis testing for zero correlation
* Conditional probability
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| **Secondary source (details of data from assessments and tests)** |
| Half termly assessments:* HT2 Christmas mocks: PURE paper (100 marks), APPLIED AS paper (60 marks)
* HT3 online assessment on Dr Frost, PURE exam paper 100 marks)
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| **Other relevant sources (any other assessments which may be relevant to the final grade)** |
| * Recorded homework on Dr Frost.
* Pearsons unit tests from year 12.

In class quiz:* Quiz 1: Integration by inspection (8 marks)
* Quiz 2: integration by parts (8 marks)
* Quiz 3: integration by substitution (8 marks)
* Quiz 4: integration with partial fractions (8 marks)
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