

Subject Maths			
Title/Topic	Format	Length	WC
Pure Paper 1	Written exam	2 hrs	
Pure Paper 2	Written exam	2 hrs	
Applied paper (stats/mech)	Written exam	2 hrs	

In this Advent assessment I will be asked to show I can... Pure Maths Papers 1 & 2 (all content EXCEPT year 13 integration)

Binomial Expansion

Functions – Domain, Range, Inverse etc

Co-ordinate Geometry

Proof

Differentiation from first principles

Differentiation – Trigonometry, exponentials

Chain rule, Product rule, Quotient rule

Mathematical modelling with Trigonometry

Mathematical modelling with logarithms

Sequences

Graph sketching

Modulus – graphs and solving

Integration

Implicit differentiation

Variable acceleration

Trailers & forces

Pulleys



Use of discriminant Maxima & minima Trigonometrical identities Trigonometrical equations Factor theorem Parametric differentiation Partial fractions Numerical methods 3D vectors Statistics & Mechanics - all year 12 content Sampling methods Resultant forces Averages & Standard deviation Velocity-time graphs Probability – independence & mutually exclusive Newton's Laws Venn diagrams & Set notation F=Ma Large data set Suvat Hypothesis testing



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

- 1. Review the work you have completed in class this term. Work through the practice questions you have been provided after each lesson again so that you have a deep understanding of all the topics covered.
- 2. Complete and revisit the integral assessments for the first two units covered this vear.
- 3. Complete questions from your text book.
- 4. Use revision techniques such as flashcards on problematic topics.

What useful websites/resources could I use to help me prepare?

www.integralmaths.org

https://www.mathsgenie.co.uk/newalevel2.php

Year 2 A Level Pure | Naiker

Text book pdf (saved online)