



Subject	Further Mathematics		
Title/Topic	Format	Length	Date
Paper 1 – Pure	Written Exam	2 hours 40 minutes	Thursday 5 January 9.15am – 11.55am
Paper 2 – Mechanics	Written Exam	1 hour 15 minutes	Monday 9 January 9.15am – 10.15am
Paper 3 – Modelling with Algorithms	Written Exam	1 hour 15 minutes	Thursday 12 January 12.40pm – 1.55pm

My Advent assessment will test my knowledge on...	
<p>Pure Content Assessment may include question on the following topics:</p> <ul style="list-style-type: none"> • Hyperbolic functions, Maclaurin series • The Argand diagram • Solving a 1st order differential equation • de Moivre’s theorem • Summation of series • Improper integral • The nth roots of a complex number • Hyperbolic equation • Linear transformations and their associated matrices • Polar coordinates • Proof by induction • Points, lines and planes • Roots and coefficients of a polynomial equation • Partial fractions 	<p>Mechanics Assessment may include question on the following topics:</p> <ul style="list-style-type: none"> • Dimensional analysis • Forces • Work, energy and power • Momentum and impulse • Centre of mass <p>Modelling with Algorithms Assessment may include question on the following topics:</p> <ul style="list-style-type: none"> • Algorithms • Networks • Linear programming



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

To prepare for this assessment:

1. Attempt the practice paper provided to you
2. Review your classwork from this term
3. Complete and re-attempt the unit tests from integral.
4. Practice questions from your text book.
5. Review your class-based topic assessments completed so far this term.

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

<https://integralmaths.org/>

<https://www.khanacademy.org/math>

<https://www.whitegroupmaths.com/>

<http://www.mathcentre.ac.uk/>