



Subject	Further Mathematics		
Title/Topic	Format	Length	Date
Paper 1 – Core Pure	Written exam paper	1 hour 15 minutes	Wed 31 August 11.00am
Paper 2 – Mechanics	Written exam paper	1 hour 15 minutes	Thu 1 September 9.00am
Paper 3 – Modelling with Algorithms	Written exam paper	1 hour 15 minutes	Fri 2 September 11.00am

In this assessment the topics I will be assessed on are...

Paper 1 – Pure Maths	Paper 2 – Mechanics
<p>Modulus-argument form of complex numbers</p> <p>Summation of series; proof by induction</p> <p>Linear transformations and their associated matrices</p> <p>Relations between the roots and coefficients of polynomial equations</p> <p>Simultaneous equations; inverses of square matrices</p> <p>Arithmetic of complex numbers</p> <p>Angle between planes; parallel vectors</p> <p>The Argand diagram</p>	<p>Momentum and impulse treated as vectors; concepts of work and energy</p> <p>Forces, friction</p> <p>Centre of mass</p> <p>Equilibrium of a particle</p> <p>Equilibrium of a rigid body, couple</p> <p>Direct impact, Newton's experimental law</p> <p>The work-energy principle, power; dimensional consistency</p> <p>Paper 3 – Modelling with Algorithms</p> <p>Dijkstra's algorithm;</p> <p>Critical path analysis</p> <p>Algorithms</p> <p>Formulating a linear programming problem, simplex method, non-standard form</p> <p>Prim's algorithm</p> <p>Networks and graphs</p> <p>Network flows; solving network problems using technology; use of software</p>



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

To prepare for this assessment:

1. Attempt the practice exam papers provided to you by your teacher.
2. Review the QLA from the Lent mock exams and your Pentecost assessments to identify the topics that you need to spend more time on.
3. Review your exercise books and classwork from this year.
4. Complete and re-attempt the unit tests from integral.
5. Practice questions from your text book.
6. Review your class-based topic assessments completed so far this year.

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

<https://integralmaths.org/>

<http://www.mathsgenie.co.uk/alevel.html>

s-cool.co.uk/a-level/maths

revisionworld.co.uk/a2-level-level-revision/maths

schoolworkout.co.uk/a_level.htm

mathsCentre.ac.uk