

Expectations

Students who opt for Advanced Higher Maths typically have an interest in mathematics and an intention to continue their studies at university in a Mathematics, Science, Engineering or related field.

You may have the potential to succeed with Advanced Higher Maths, but must be aware that this potential can only be realised by full co-operation between student and teacher.

You are expected to arrive at class on time and properly equipped.

Students are responsible for their own learning and thus are responsible for catching up on any work missed.

Useful Tips

- Students who revise regularly have a much better chance of achieving a good grade.
- Do not try to 'cram' all the revision into the days just before a test.
- Review the work done in the Maths class each day. It may be useful to do the harder questions again.
- Ask the teacher for help when necessary.
- Additional revision material available on the school network and the school website: <http://www.invergordon.highland.sch.uk/>

Progression

Students may continue their studies in higher or further education, using either the qualification as a general or specific entry requirement for mathematics, engineering, or science HND or degree courses. A good pass in Advanced Higher Maths can also be useful for entry to medical, dental and veterinary courses.



Invergordon Academy

Mathematics Department

Course Information

Advanced Higher Maths

This information booklet outlines the Higher Still course.
Please keep this booklet for reference purposes.

Advanced Higher Mathematics

The syllabus is designed to build upon and extend candidates' mathematical learning in the areas of algebra, geometry, and calculus. The units, Mathematics 1 (AH) and Mathematics 2 (AH), and Mathematics 3 (AH) are progressive and continue the development of algebra, geometry and calculus from Higher level. These are assessed internally followed by a final external exam.

Entry Requirements

Entry is at the discretion of the department, a good pass at Higher level is required.

Assessment

The course is assessed internally by Unit Tests and externally by a National Exam. To gain the course award students must pass both the internal and external assessments. Progress is reviewed at the end of each unit.

Unit Tests

- On completion of each unit, students sit a Unit Test set by SQA.
- These last 45 minutes and are marked by the class teacher.
- The tests are designed to assess the basic skills learnt in each unit and are thus deemed to be below exam standard.
- Pass mark is high, approximately 75-80%.
- Students may re-sit the tests once, but the need to do so implies that either the student has not done sufficient work or that the student is attempting a course that is too difficult.

There will also be a prelim and whole course assessment.

National Exam

- The final grade (A, B or C) awarded for Advanced Higher Maths is determined by a National exam at the end of the year.
- The National Exam consists of one 3 hour paper
- Calculators are allowed.
- Students who pass the unit tests but do not pass the final exam will receive a certificate showing the unit passes.

Homework and Revision

Students who undertake an Advanced Higher course are expected to be **responsible for their own learning** to a much greater extent.

A large proportion of the Advanced Higher Maths course will rely on independent learning and personal study.

Much of the class time will be used for discussion and demonstration of new concepts. Routine exercises designed to practise new skills may need to be completed within the allocated study time or at home.

It is essential that students meet the schedule set by the class teacher. Failure to complete tasks on time will mean that students do not have the necessary background for subsequent lessons.

In addition to set tasks, students are expected to review and revise coursework throughout the year, not just in the run up to assessments.

As a rough guide, Advanced Higher Maths students should spend approximately 4 hours each week studying Maths at home.