

# **Mathematics National 5**

## **Award Received**

Successful completion of your S4 Mathematics course and exam will allow you to attain a National 5 Mathematics qualification.

National 5 is Graded A – D.



## **Entry Level: What do I need to do it?**

The level at which you study Mathematics in S4 will be decided based on your attainment and achievement in the S1-S3 Mathematics course.

For pupils in S5/6 entry will be conditional on successful completion of the preparation for National 5 course or the completion of National 4 Mathematics.

Your Mathematics teacher will help you to decide which level of study is most appropriate.

## **Course Content: What will I learn?**

### **National 5 Mathematics**

Course structure

You will acquire and apply operational skills necessary for developing mathematical ideas through symbolic representation and diagrams. You will select and apply mathematical techniques and will develop your understanding of the interdependencies within mathematics. You will develop mathematical reasoning skills and will gain experience in making informed decisions.

(For more information go to: <http://www.sqa.org.uk/sqa/45752.html>)

### **Mathematics: Expressions and Formulae (National 5)**

The general aim of this Unit is to develop skills linked to mathematical expressions and formulae. These include the manipulation of abstract terms, the simplification of expressions and the evaluation of formulae. The Outcomes cover aspects of number, algebra, geometry and reasoning.

### **Mathematics: Relationships (National 5)**

The general aim of this Unit is to develop skills linked to mathematical relationships. These include solving and manipulating equations, working

with graphs and carrying out calculations on the lengths and angles of shapes. The Outcomes cover aspects of algebra, geometry, trigonometry and reasoning.

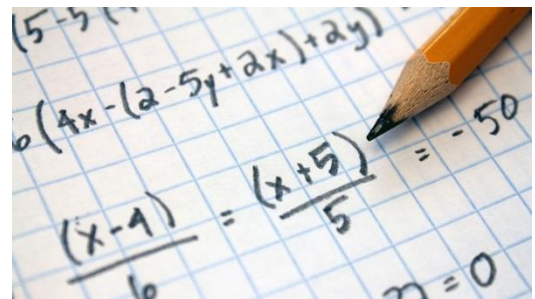
### **Mathematics: Applications (National 5)**

The general aim of this Unit is to develop skills linked to applications of mathematics.

These include using trigonometry, geometry, number processes and statistics within real-life contexts. The Outcomes cover aspects of these skills and also skills in reasoning.

### **Teaching Methods: What will I do?**

- Class Discussion
- Problem Solving tasks
- Group work
- Presentations
- Practise exercises
- Computer based tasks



### **Assessment: How will I be assessed?**

You will undertake 4 block assessments and 4 A/B tasks to track your progress

The final exam will be two Papers a non Calculator paper(Paper 1) and a Calculator paper(Paper 2).

### **Homework.**

There will be regular Homework throughout the course to develop your skills. It is essential that you complete this homework to the Highest standard to allow you the best opportunity to succeed in the final exam. Homework will range from completing exercises set in class, topic based homework tasks, video lessons and A/B level block homeworks covering exam standard questions.

### **Progression in the Senior Phase.**

Completion of N5 Mathematics grade A-C will allow you to progress onto Higher Mathematics. It is also important to note that a number of Universities set National 5 as a required entry qualification to the majority of their courses.