

Computing Science National 4/5

Award Received

Successful completion of your S4 Computing Science outcomes, course work and exam or Added Value assessment will allow you to attain a Computing Science qualification.

National 4 is Graded Pass or Fail

National 5 is Graded A - D.

Entry Level: What do I need to do it?

The level at which you study Computing will be decided based on your attainment and achievement in the S1-S3 Computing course or through discussion with Mr Graham or Dr Warner. You maybe allowed to pick up National 5 Computing without taking Computing in S3 as long as you have shown a good grasp of Mathematics in previous years.

Dr Warner or Mr Graham will help you to decide which level of study is most appropriate for you.

Course Content: What will I learn?

There are two Mandatory Units:

Information System Design and Development will see you implement practical solutions using a range of development tools and to develop an understanding of the technical, legal, and environmental issues related to one or more information systems.

Software design and development unit covers how software is created commercially and what is necessary in a modern software development environment. We will be using Visual Studio, and Python and will develop a solution to problems using the following stages of the software development process: analysis, design, implementation, testing and documentation.

For more information have a look at the school website Computing section and <https://www.sqa.org.uk/sqa/56923.html>.

Teaching Methods: What will I do?

- Class Discussion



- Problem Solving tasks
- Group work
- Presentations
- Practise exercises
- Computer based tasks
- Real world example analysis



Assessment: How will I be assessed?

You will complete two practical tasks based on each Unit of work. The design and development of a Database for Information Systems and a programming tasks for the Software Development unit are all required to complete the course along with a coursework task that combines both programming and databases tasks.

There is a final exam for N5 pupils to complete on the core concepts of the course in May.

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 Past Paper questions.

Progression in the Senior Phase.

Gaining an A to C at National 5 in Computing will allow you to progress onto Higher Computing.

Gaining a Pass at National 4 in Computing will allow you to progress onto National 5 Computing.

