OPTION – GCSE COMPUTER SCIENCE (EBacc)

Which course will I be following?

GCSE Computer Science (9-1)

What will I be doing?

The qualification has three core components: computing theory, computational thinking and

programming. The qualification will cover the following aspects:

* Understand and apply the fundamental principles and concepts of computer science, including abstraction, decomposition, logic, algorithms, and data representation
* Analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs
* Think creatively, innovatively, analytically, logically and critically
* Understand the components that make up digital systems, and how they communicate with one another and with other systems
* Understand the impacts of digital technology to the individual and to wider society apply mathematical skills relevant to computer science

How will my work be assessed?

The qualification has 3 units, two of which are exam assessed. The other is an internal nonexamined assessment that does not contribute the final grade. The units are as followed:

* Unit 1 - Principles of Computer Science
* Unit 2 - Applications of Computer Science
* Unit 3 - Programming Exam

Are there any specific requirements for this course?

A commitment to developing your knowledge and skills of using the programming language,

Python, which you will be using in your programming tasks in the GCSE. Attend booster

sessions and master classes during the course to maximise your success in the subject. The

course has lots of mathematical elements and requires good computational and calculation skills to be successful.

How will this qualification help in the future?

This course will give you the knowledge and skills to problem solve abstractly, which is core

skills in mathematics, science and engineering. In addition, a good result in the qualification will equip you for post 16 studies in computer science, physics and mathematics.

Who should I ask if I need more information?

Mr Smith