

Tavistock College Sixth Form

When you sign up for a subject please note that you will be expected to study that subject for the whole two years. There will be a formal assessment in the Autumn term, after four weeks and that is the only time when students will be allowed to swap or change subjects. After this, too much will have been missed.

Subject: Computer Science		Qualification: A Level	
Exam board: OCR		Entrance criteria: Maths 5, Computer Science 5 (if studied)	
Topics covered: for more detail see www.ocr.org.uk			
P01 2½hr written exam June Y13 - 40%	P02 2½hr written exam June Y13 - 40%		
Structure and function of the processor	Elements of computational thinking		
Types of processor	Programming techniques		
Input, output and storage	Computational methods		
Systems Software	Algorithms		
Applications Generation			
Software Development			
Types of Programming Language			
Compression, Encryption and Hashing			
Databases			
Networks			
Web Technologies			
Data Types			
Data Structures			
Boolean Algebra			
Computing related legislation			
Moral and ethical Issues			
Programming in Visual C# (or language of students choice - subject to exam board)			

approval) - this will be used to complete the Programming Project P03 - 20%

How the subject will be taught:

The course is shared between Mrs Neill and Mr Lane and taught through a combination of 'unplugged' - off computer lessons and 'practical' - usually programming tasks.

There is a significant theory component and note taking will be an important part of each lesson.

Expectations of students:

Students are expected to use the textbook and online resources provided to 'read around' topics and regard the classwork as a starting point for their study. They are expected to put in a significant amount of time out of class programming and are advised to install Visual Studio Community Edition (Free) at home for this purpose.

Summer work:

Watch SLR09 Run Length Encoding and Dictionary Coding on CraginDave's Youtube OCR A Level Playlist and complete the worksheet handed out during the taster session.

(It is important for you to bring your completed summer work with you on enrollment day, and hand it into the subject lead or head of faculty.)