EPCHS ICT & Computer Science Department: Year 11 Programme of Study

To deliver lessons that allow pupils to confidently complete papers 1 and 2 of the OCR Computer Science qualification. The priority for KS4 is to keep pupils active, engaged, and to most importantly develop skills that will be built upon throughout their school career, as well as equip them with the tools they will need to allow them to successfully complete their public examination at the end of Year 11.

Year/Term	Unit of Work	Intent
Autumn	2.1 Algorithms 2.2 Programming Techniques 2.3 Robust Programs	During the Autumn term pupils will be introduced to Paper 2. 2.1 Looks at Computational Thinking and how algorithms, flowcharts and pseudocode are constructed. 2.2 Looks at a variety of programming techniques. Pupils will look at the different data types, how SQL is written and used, and different data structures. 2.3 Takes a look at the need for defensive design and testing of programs, as well as the various testing techniques
Spring	2.4 Logic 2.5 Translators/IDEs	Spring term pupils will be introduction to logic gates and how translators and IDEs are used. 2.4 Looks at the various logic gates and their associated truth tables. Pupils will also develop knowledge of how read a combination of logic gates and create a truth table for all eventualities. 2.5 Pupils will learn the benefits of using high level programming over low level programming. They will also develop knowledge of the differences between compilers, interpreters and assemblers.
Summer	Programming	Pupils will carry out a wide range of programming challengers using high level programming language.