

Curriculum Overview: Year 11 Computer Science

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic 1.2 Memory and Storage	Topic 1.3 Computer Networks	Topic 1.4 network security 1.5 System Software	Topic 1.6 Ethical Legal etc impact of digital technology	Topic Revision and exams	Topic N/A
Links to prior learning Data Representation 1	Links to prior learning 1.1 System architecture	Links to prior learning 1.3 Computer Networks	Links to prior learning Digital Literacy 3	Links to prior learning J277/01 – Computer Systems J277/02 – Computational thinking, algorithms and programming	Links to prior learning Stretch and Challenge Enquiry What effect does binary have on different file types for example sound?
Stretch and Challenge Enquiry What effect does binary have on different file types for example sound?	Stretch and Challenge Enquiry How does the concept of layers allow the internet to function?	Stretch and Challenge Enquiry How does encryption keep data safe?	Stretch and Challenge Enquiry How does ethics and legislation affect different stakeholders?	Stretch and Challenge Enquiry What does a grade 9 look like?	Stretch and Challenge Enquiry
Equipment Needed Programming challenges Idle Google Classroom A device to be able to program on (CGP GCSE Computer Science 9-1 Revision)		Wider Reading ClearRevise OCR Computer Science J277 OCR GCSE (9-1) J277 Computer Science (S Robinson,2020)		Family activities Ask your child to discuss or show you some of the programs they have created. Encourage your child to develop a growth mind-set and accept mistakes as part of the learning process. If you have a PC or laptop and can access the following website https://repl.it/@enaard/Python-3 Or download the free Python software; students can work on their programing skills.	