

Year 12 IT

The curriculum has been devised to develop the students' knowledge, understanding and skills of the essentials to IT. Students will consider the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations. Additionally this curriculum will give students a sound understanding of IT technologies and practices essential for IT professionals. Information learnt will provide a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how business uses IT.

Methods of deepening and securing knowledge:	
Retrieval practice	Starter activities are used whilst students login to computers, these are knowledge retrieval activities.
Interleaving	Knowledge is revisited several times throughout Year 12. Key concepts are repeatedly covered using different scenarios and are interleaved within the curriculum.
Concrete examples	Concrete examples are used as the teacher demonstrates completed projects or tasks in creative or practical lessons to demonstrate how the skills taught can be applied to different scenarios.
Dual coding	Dual coding is used as instructions for tasks include written steps and images showing what icons or tools look like.

	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Topic(s)	Unit 1- Computer hardware - Communication - Technology Unit 2 Global information - Information storage media, devices and the Internet	Unit 1 Computer software - Employability and communication skills used in an IT environment Unit 2 Information management - Information sources and data types	Unit 1 Business IT systems - Ethical and operational issues Unit 2 Process flow of information - Categories of information, data analysis	Unit 1 Business IT systems - Threats to computer systems Unit 2 Global information - Legislation, green IT, risks and impacts and protection methods	Exam Revision (Exams mid-May) Unit 3 – Cyber Security - Understand what is meant by Cyber Security	Fundamentals of Web Design - HTML, CSS, Javascript development Unit 3 – Cyber Security - Understand the issues surrounding Cyber Security
Assessment	- End-of-topic tests	- End-of-topic tests	- End-of-topic tests - PPEs	- End-of-topic tests	- External Assessment (2 exams)	- End-of-topic tests

Independent learning:

Independent learning is a core part of learning and serves to support the learning in class, enrich the student experience and develop knowledge and skills. Each theory lesson will include a follow up Independent learning task for students to complete in their own study time. Preparing for assessment is an essential part of each topic as each assessment allows teachers and students to see their progress. It is crucial that revision is completed so students can show what they know.