



UPDATED: September 2021

COMPUTING

	Autumn 1	Autumn 2		Spring 1	Spring 2	Summer 1	Summer 2	
Year 7	Scratch programming	Programming with Microbits	Computational thinking	Peripheral devices: Input, output and storage	Data representation, binary, text (ASC11), image and sound	History of computing	Excel and cyber security	E-Safety
Year 8	Programming with Python	Data and binary	Boolean and logic gates	Sound sampling and data in images	DATA AND INFORMATION Collecting, Presenting and Interpreting Data	E - Safety	HTML Khan Academy	Networks and Networking. WWW and Internet
Year 9	Microsoft Word	Microsoft Powerpoint		Microsoft Excel	Email	E-Safety	Sum Project	

*NB - Option choices: - Students in Year 9 will be studying either Digital Literacy or Computer Science over 3 years and students in Year 10 studying the courses over 2 years

DIGITAL LITERACY*

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4 1	Overview Exploring user interface and design principles	Project planning techniques: Create a project plan and initial design	Developing, refining and reviewing a user interface	Collecting, presenting and interpreting data	Data processing methods	Produce a dashboard
KS4 2	Effective digital working practices: Modern technologies and their impact	Effective digital working practices: Cyber security - threats to data, prevention and management, cyber security polices	Effective digital working practices: Wider implications of digital systems, responsible use, legal and ethical	Effective digital working practices: Planning and communicating in digital systems	Effective digital working practices: Revision and final examination	

COMPUTER SCIENCE*

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
KS4 1	Systems architecture, translators and facilities, memory and computational logic	Algorithms, programming techniques and development	Storage, systems software, wired/wireless networks, programming techniques and development	Producing robust programs, programming development, process for success and a formal coding assessment	Network topologies, protocols and layers, data representation and programming development	Data representation, programming techniques and development	Year group rollover
KS4 2	Ethical, legal, cultural & environment, programming skills audit	Non Examined Assessment (NEA - previously known as controlled assessment)	System security		revision	GCSE Exam	