Computer Science & Information Technology

Building on Key Stage 3

Computer Science	- Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems - Understand how instructions are stored and executed within a computer system. - Understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits. - Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users
ICT	- Create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability - Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
10	**Unit 2** Planning, creating, modifying, and using: - Databases - Spreadsheets - automated document - Mail Merge - storing images - Logo.		**Unit 1 - Theory** - How IT can be used to fulfil the needs of organisations and individuals - How data and information is used and transferred - Legal, moral, ethical, cultural, and environmental impacts of IT and the need for cybersecurity			**Unit 2** Set Task Assessment 40 Hours / 120 marks 60% of Qualification
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