

## **Overall intent statement**

Our ambitious, knowledge-rich and engaging Computer Science and Information Technology curriculum aims to provide high-quality teaching to evoke students use of computational thinking and creativity to understand and change the world. The curriculum will teach students key knowledge about how computers and computer systems work, and how they are designed and programmed. Students will gain key knowledge and skills in the three main areas of the computing curriculum: Computer Science (programming and understanding how digital systems work), Information Technology (using computer systems to store, retrieve and send information) and Digital Literacy (evaluating digital content and using technology safely and respectfully). The objectives within each strand support the development of learning across the key stages, ensuring a solid grounding for future learning and beyond.

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	Subject-based curriculum
Key	Students undertake creative projects that involve selecting, using, and combining
Stage	multiple applications within this subject. There is an equal divide between leading
3	students towards a Computer Science pathway or down an IT route in order that can
	make this choice effectively should they wish to do so. A mix of different programming
	languages are used, at least one of which is textual, to solve a variety of computational
	problems to develop modular programs that use procedures or functions. Students are
	taught to create, re-use, revise and re-purpose digital artefacts for a given audience,
	with attention to trustworthiness, design and usability. In addition, students are made
	aware of the range of ways to use technology safely, respectfully, responsibly and
	securely.
Кеу	At Key Stage 4 the department is keen to ensure the qualifications will engage and
Stage	prepare learners for either academic or vocational progression post-16. The
4	qualifications will broaden learners' experience and understanding already taken place
	at Key Stage 3. Therefore, the opportunity to study Computer Science GCSE or an IT
	qualification is on offer as part of the curriculum. The focus is on building skills to show
	aptitude and improving of understanding. The aim is to allow students to acquire a
	deeper interest in the content to stimulate confidence in what can be a difficult and
	challenging subject.
Кеу	As with Key Stage 4 the choice to offer either Computer Science or a BTEC Qualification
Stage	is available dependent upon the cohort. Computer Science and the digital sector is a
5	major source of employment in the UK. Digital skills span all industries; almost all jobs
	in the UK today require employees to have a good level of digital literacy. Programmers
	are needed in all contexts from game design to artificial intelligence to complex data
	analysis. At this level the aim is to really specialise in certain applications to develop
	models, programs or applications that can be used in the real world.