Computer Science curriculum map 2026-2027

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	**Digital Induction & School Systems** Logging on & school systems Passwords, email & online communication File management	**E-Safety & Digital Citizenship** Digital footprint & cyberbullying Fake news, scams & effective searching Evaluating information, copyright & e-safety	**Computer Systems & Networks** Inside a computer & hardware Digital devices & software types Networks; Internet vs WWW	**Cyber Security, AI & Digital Media Skills** Cyber security & storage devices Introduction to AI Audience/purpose & Word skills	**Digital Media & Creative Project Work** Word & presentation skills Media types and AI media project Evaluation & KS3 assessment	**Computational Thinking & Programming** Algorithms & flowcharts Python: outputs, variables & data types Debugging & programming challenges
Links	**SMSC:** Social/Moral: respectful digital communication and secure choices. **British Values:** Individual liberty; Mutual respect - safe, responsible email and system use. **Gatsby 4:** IT support, network technician and digital administration.	**SMSC:** Moral/Social/Cultural: online consequences, respectful participation and evaluating viewpoints. **British Values:** Rule of law; Individual liberty; Mutual respect/tolerance - cyberbullying, scams and copyright. **Gatsby 4:** Cybersecurity, journalism/media, digital marketing and content moderation.	**SMSC:** Social/Moral: how connected systems support everyday life; responsible shared technology use. **British Values:** Individual liberty; Mutual respect - informed, responsible use of devices and networks. **Gatsby 4:** Hardware/IT technician and network engineer.	**SMSC:** Moral/Social: responsible AI, cyber safety and designing for an audience. **British Values:** Rule of law; Individual liberty; Mutual respect - secure/legal technology use and responsible content. **Gatsby 4:** Cybersecurity, AI/data and digital content careers.	**SMSC:** Spiritual/Social/Cultural: creativity, feedback and media for different audiences. **British Values:** Individual liberty; Mutual respect - creative choices balanced with audience needs. **Gatsby 4:** Graphic design, digital marketing and content creation.	**SMSC:** Social/Moral: collaboration, resilience, accuracy and peer debugging. **British Values:** Individual liberty; Mutual respect - independent solutions and constructive feedback. **Gatsby 4:** Software/game developer and software tester (QA).
8	**Cybersecurity & Online Safety** E-safety recap & social media Passwords/authentication, malware & phishing Digital wellbeing; networks, LAN & WAN	**Networks & Computer Systems** Internet & web services AI/machine learning, bias & deepfakes Network hardware/security; binary; images	**Data Representation & Systems** Sound & compression CPU and memory Embedded systems; computational thinking & algorithms	**Computational Thinking & Problem Solving** Algorithms & flowcharts Python introduction / Hello World Assignment, outputs, variables & strings	**Python Programming & Problem Solving** Data types, variables & input/output If / elif and random module Loops in Python	**Python Programming & Functional Skills** KS3 assessment & debugging Practical Python challenges PowerPoint, Word & MS application skills
Links	**SMSC:** Moral/Social: protecting self/others online and managing digital wellbeing. **British Values:** Rule of law; Individual liberty; Mutual respect - secure accounts and safe online behaviour. **Gatsby 4:** Cybersecurity analyst, IT support and network roles.	**SMSC:** Moral/Cultural: AI bias/deepfakes; Social: secure network use. **British Values:** Rule of law; Individual liberty; Mutual respect - authorised network use and informed AI choices. **Gatsby:** Gatsby 2 & 4: network, cybersecurity and AI/data careers; changing digital job roles.	**SMSC:** Social/Moral: embedded systems in daily life and responsible handling of digital data. **British Values:** Individual liberty; Mutual respect - informed use of data-rich systems. **Gatsby 4:** Computer/embedded-systems engineer and data technician.	**SMSC:** Social/Moral: explaining solutions, teamwork, logic and resilience. **British Values:** Individual liberty; Mutual respect - different valid approaches to problem solving. **Gatsby 4:** Software developer and systems analyst.	**SMSC:** Spiritual/Social/Moral: creative coding, peer review and accurate testing. **British Values:** Individual liberty; Mutual respect - design choices and constructive feedback. **Gatsby 4:** Software/game developer, data analyst and automation roles.	**SMSC:** Social/Moral: professional communication, accuracy and responsible digital work. **British Values:** Individual liberty; Mutual respect - accessible documents/presentations for different users. **Gatsby 4:** Software testing and wider business/administrative digital careers.
9	**Cybersecurity, Ethics & Legislation** E-safety, laws & ethics GDPR/data protection; cybercrime & misuse Generative AI, deepfakes, bias, copyright & job automation	**Computer Systems & Architecture** CPU & architecture Memory/storage, performance & operating systems System security; binary/denary; representing images	**Data Representation & Systems** Representing sound & compression CPU, memory & embedded systems Computational thinking & algorithms	**Computational Thinking & Problem Solving** Algorithms & flowcharts Python introduction / Hello World Assignment, outputs, variables & strings	**Python Programming & Problem Solving** Data types & variables If / elif, random, input/output Loops in Python	**Python Programming & Functional Skills** KS3 assessment & debugging Practical Python challenges PowerPoint, Word & MS application skills
Links	**SMSC:** Moral/Social/Cultural: privacy, consent, fairness, bias, deepfakes and automation. **British Values:** Rule of law; Individual liberty; Mutual respect/tolerance - GDPR, computer misuse, copyright and responsible AI. **Gatsby:** Gatsby 2 & 4: cybersecurity, data protection, AI, digital forensics; impact of AI on jobs.	**SMSC:** Moral/Social: authorised, secure and reliable systems. **British Values:** Rule of law; Individual liberty; Mutual respect - secure, authorised system access. **Gatsby 4:** Hardware engineer, systems architect, IT support and cybersecurity.	**SMSC:** Moral/Social: accurate digital data handling and embedded systems in everyday life. **British Values:** Individual liberty; Mutual respect - informed and responsible use of data/systems. **Gatsby 4:** Data technician, embedded-systems engineer and computer engineer.	**SMSC:** Social/Moral: communicating algorithms, teamwork, precision and transparent problem solving. **British Values:** Individual liberty; Mutual respect - independent solutions and constructive evaluation. **Gatsby 4:** Software developer, systems analyst and technical project roles.	**SMSC:** Spiritual/Social/Moral: creativity, testing, debugging and robust program design. **British Values:** Individual liberty; Mutual respect - creative coding choices and peer feedback. **Gatsby 4:** Software engineer, games developer, data analyst and automation roles.	**SMSC:** Social/Moral: professional digital communication, accuracy and responsible application use. **British Values:** Individual liberty; Mutual respect - appropriate digital outputs for users/purposes. **Gatsby 4:** Software QA/testing and transferable digital workplace roles.

SMSC = Spiritual, Moral, Social and Cultural development. British Values = Democracy, Rule of Law, Individual Liberty, Mutual Respect and Tolerance. Gatsby Benchmark 4 = linking curriculum learning to careers.