Yate Academy - Curriculum Long Term Plan

Subject: Computer Science

Curriculum Statement
Our computing curriculum helps students become confident, capable, and safe users of technology. We aim to equip students with a strong foundation in computer science, digital literacy and information technology. Students will explore key principles of developing practical programming skills, using digital tool effectively, understanding the ethical and safe use of technology and appreciate computing's impact on society and future careers.

	Year 7	Year 8	Year 9
Term 1	The Basic Skills of Computing	Algorithms and Flowcharts	Networks and Protocols
Term 2	Computer Hardware	Data Representation	Cybersecurity
Term 3	Introduction to Programming	3D Modelling with Blender	HTML and CSS
Term 4	Programming with BBC Micro Bits	Computing Systems	Introduction to Python
Term 5	The Internet and E-safety	Video Game Development	IT in the Workplace
Term 6	Understanding Spreadsheets	Programming with Edublocks	Physical Programming

Curriculum Impact - How do you know students know more and remember more as a result of your curriculum?
We gain an understanding of if students know and remember more by assessing throughout the academic year. By providing low stakes quizzes, retrieval practice and formative assessments which reinforce key concepts and vocabulary. Progress can be tracked through projects and practical tasks that highlight increasing technical skills, independence and problem-solving ability. Throughout Key Stage 3, students will revisit key topics in order to deepen understanding and build long-term memory. Students will leave Key Stage 3 with the confidence, competence and digital literacy needed to excel in a world which is powered by technology.