



Computer Science Curriculum Overview - Year 9

	Unit	Details
Autumn One	Algorithms	Pupils are introduced to computer science through algorithms and exploring how to use computational thinking which is critical for studies throughout the course
Autumn Two	Computer Systems	In computer systems students explore the physical components of a computer and how they work together to form a complete system including data management and processing.
Spring One	Data Representation	Continuing from previous studies of how data is stored, pupils explore how data is represented within a computer exploring alternative number systems, how sound and images are stored and how a computer compresses key information.
Spring Two	Fundamentals of Python (Beginner level)	Pupils explore the basic elements of Python including the three fundamental pillars of Sequence, Selection and Iteration. This unit builds further upon previous studies and includes introductions to nested solutions and solving more complex problems.
Summer One	Python Practical project	The first of the two python practical projects focuses upon applying the knowledge and skills pupils have previously developed to solve a problem. Modelling former NEA assessments this serves as the first of two opportunities for pupils to develop key practical experience of problem solving.
Summer Two		