BRANNEL SCHOOL
EXCELLENCE | CREATIVITY | COMMUNITY

Curriculum Summary Document

Year 11 – Computer Science

Module/Unit of Learning	Taught during	What will students learn?	How does this prepare students for success at GCSE?	Links to other Subjects
Unit 1: Computer Systems	Sept – Nov	Students revisit and deepen Component 1 theory: CPU architecture, memory, storage, networks, systems software, and legal/ethical issues. Lessons focus on retrieval, interleaving, and exam-style application, strengthening retention and precision required for terminal exams.	This unit consolidates all Component 1 content, strengthening exam literacy and long-term recall. Students refine the ability to explain, compare and apply system concepts—skills essential for high performance on J277/01.	Maths Science
Unit 2: Algorithms & Programming	Dec – Mar	Students refine Component 2 knowledge: algorithms, pseudocode, flowcharts, trace tables, programming fundamentals, robust programming, Boolean logic, and languages/IDEs. They undertake extended Python development and frequent exam-style programming tasks.	This unit builds fluency in algorithmic reasoning, problem-solving and code construction required for J277/02. Students learn to design, write, test and refine programs with increasing independence, meeting GCSE expectations.	
Revision & Exam Preparation	Mar – June	Students apply both components through targeted revision, mixed-topic practice, PPEs and full exam-paper completion. Focus areas include extended-response reasoning, structured answers, mastery of OCR command words, and timed conditions.	This unit prepares students directly for GCSE success by strengthening exam technique, securing synoptic understanding and ensuring confidence across both papers.	