SUBJECT: Curriculum Overview

Year 12

Term	Topic studied	What will I learn?	How will I be assessed?	Wider reading:
Autumn	SLR 1 – Structure and Function of the Processor SLR 2 – Types of Processor SLR 3 – Input, Output and Storage	Fetch-Decode-Execute cycle, CPU architecture, CISC vs RISC, I/O and storage devices, RAM/ROM/virtual memory	In-class assessments, SmartRevise tasks, SLR-based exam questions, flipped learning activities, programming challenges	Craig'n'Dave SLRs 1–3, SmartRevise, OCR H446 Specification
Spring	SLR 4 – Systems Software SLR 5 – Application Generation SLR 6 – Software Development	Operating systems, memory management, types of translators, SDLC methodologies	In-class assessments, SmartRevise tasks, programming tests, flipped learning, exam-style questions	Craig'n'Dave SLRs 4–6, SmartRevise, OCR H446 Specification
Summer – Term 3	SLR 7 – Types of Programming Language SLR 9 – Compression, Encryption, Hashing SLR 10 – Databases	OOP vs procedural programming, assembly language, lossy/lossless compression, encryption types, relational databases	In-class assessments, SmartRevise, flipped learning, programming mini-projects, end-of-topic tests	Craig'n'Dave SLRs 7, 9, 10, SmartRevise, OCR H446 Spec
Summer – Term 4	SLR 11 – Networks SLR 12 – Web Technologies	Types of networks, topologies, protocols, layered models, HTML, CSS, JavaScript,	Flipped learning, exam questions, SmartRevise quizzes, topic tests	Craig'n'Dave SLRs 11–12, OCR H446 Spec, SmartRevise

		client/server architecture		
Summer – Term 5	SLR 13 – Data Types SLR 14 – Data Structures	Binary, hexadecimal, floating point representation, arrays, stacks, queues, linked lists, trees, graphs	Flipped learning, programming tasks, SLR self-assessments, exam questions	Craig'n'Dave SLRs 13–14, OCR H446 Spec, SmartRevise
Summer – Term 6	SLR 15 – Boolean Algebra SLR 16 – Legislation SLR 17 – Ethical, Moral and Cultural Issues	Boolean logic, laws and simplification; Computer misuse, copyright; Social/economic effects of computing	In-class assessments, SmartRevise, debates/discussions, end-of-year review tasks	Craig'n'Dave SLRs 15–17, OCR H446 Spec, SmartRevise