

YEAR 10	Theme Title	Key Areas of Knowledge Acquisition	Key Skills and Processes Learned
Examination Board and Specification Title & Number: OCR GCSE Computer Science (9-1) J276 Recommended reading/preparation: Course notes will be supplied. The Python interactive programming course on www.codecademy.com will help students to consolidate their programming skills.			
Term 1 (September – October)	Systems Architecture	What is a computer system, components, Von Neumann architecture, RAM/ROM	Algorithms, computational thinking
Term 2 (November – December)	Storage and logic	Storage, Binary, Logic, Standard Algorithms	Variables, Data types, Sequencing & Selection, Iteration
Term 3 (January – February)	Systems software and networks	Operating Systems, Utilities, Networks	Lists & Arrays, Functions & Procedures, File Handling, Testing
Term 4 (March – April)	Data representation	Units, Binary Addition, Hexadecimal, Images, Sound, Compression	Coding Practice and Consolidation
Term 5 (April – May)	Network topologies, protocols and layers	Wi-Fi & Ethernet, IP & MAC Addressing, Protocols	Programming Project
Term 6 (June – July)	Translators and utilities	Different levels of programming languages, Translators, IDE common tools and utilities	Programming Project

YEAR 11	Theme Title	Key Areas of Knowledge Acquisition	Key Skills and Processes Learned
Examination Board and Specification Title & Number: OCR GCSE Computing (J275) Recommended reading/preparation: Course notes will be supplied. The Python interactive programming course on www.codecademy.com will help students to consolidate their programming skills.			
Term 1 (September – October)	Coding	Coding Revision	Coding Revision
Term 2 (November – December)	Databases	Data Models, Database Design, DBMS	A453 Coursework
Term 3 (January – February)	Networks	Networks, Infrastructure, Internet	A453 Coursework

Term 4 (March – April)	Revision	Revision	Revision
Term 5 (April – May)	Revision	Revision	Revision
Term 6 (June – July)			