GCSE – YEAR 10 – COMPUTER SCIENCE – CURRICULUM OVERVIEW

Autumn Term		Spring Term		Summer Term	
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Themes	Key Themes	Key Themes	Key Themes	Key Themes	Key Themes
1.1.1 Architecture of the CPU 1.1.2 CPU performance 1.1.3 Embedded systems 2.2.1 Programming fundamentals	1.2.1 Primary storage (memory) 1.2.2 Secondary storage 1.2.3 Units 1.2.4 Data storage 1.2.5 Compression	1.3.1 Networks and topologies 1.3.2 Wired and wireless networks, protocols and layers 2.2.2 Data types	1.4.1 Threats to computer systems and networks 1.4.2 Identifying and preventing vulnerabilities 2.2.3 Additional programming techniques	1.5.1 Operating systems 1.5.2 Utility software 1.6.1 Ethical, legal, cultural and environmental impact	2.1.1 Computational thinking 2.1.2 Designing, creating and refining algorithms 2.1.3 Searching and sorting algorithm
Assessment / Composite Tasks	Assessment / Composite Tasks	Assessment / Composite Tasks	Assessment / Composite Tasks	Assessment / Composite Tasks	Assessment / Composite Tasks
Half-Term Assessment	Half-Term Assessment	Half-Term Assessment	Half-Term Assessment	Half-Term Assessment	Half-Term Assessment