

Computing

(Computing & Business)



KS3 Curriculum Breakdown



Year 7		Year 8
HT1 (8 weeks)	Digital Responsibility <ul style="list-style-type: none">understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns	Computer Systems <ul style="list-style-type: none">understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems
HT2 (7 weeks)	Algorithms <ul style="list-style-type: none">understand several key algorithms that reflect computational thinking (for example, ones for sorting and searching); use logical reasoning to compare the utility of alternative algorithms for the same problem	Programming <ul style="list-style-type: none">design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systemsuse 2 or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures (for

		example, lists, tables or arrays); design and develop modular programs that use procedures or functions
HT3 (5 weeks)	Data Representation <ul style="list-style-type: none"> understand simple Boolean logic (for example, AND, OR and NOT) and some of its uses in circuits and programming; understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers (for example, binary addition, and conversion between binary and decimal) understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits 	Digital Literacy <ul style="list-style-type: none"> undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users
HT4 (5 weeks)		
HT5 (7 weeks)		
HT6 (7 weeks)		