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CURRICULUM OVERVIEW 2019-2020

SUBJECT: Computing

		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
		THE BIG QUESTIONS	THE BIG QUESTIONS	THE BIG QUESTIONS	THE BIG QUESTIONS	THE BIG QUESTIONS	THE BIG QUESTIONS
YEAR 11	CS	3.1 Fundamentals of Algorithms How can pseudocode be used for problem solving?	Non-exam assessment	3.5 Computer Networks How are networks set up? How can networks be made secure?	3.4 Computer Systems How do computers process data?	Revision	
	IMEDIA	RO86: Creating a digital animation How can digital animations be planned?	RO86: Creating a digital animation How can digital animations be created?	RO86: Creating a digital animation How can a digital animation be developed further?	Catch up		
YEAR 10	CS	3.1 Fundamentals of Algorithms How can algorithms be written to solve computational problems?		3.2 Programming How can Python be used in finding solutions to complex problems?		3.6 Fundamentals of cyber security What are cyber threats? How can these be prevented?	3.7 What are the ethical, legal and environmental impacts of digital technology on wider society?
	IMEDIA	RO85: Creating a multipage website How can multipage websites be planned for specific briefs?	RO85: Creating a multipage website How can multipage websites be created?	RO85: Creating a multipage website How can multipage websites be improved?	RO81: Pre-Production Skills What is the purpose and content of pre-production?	RO81: Pre-Production Skills How can pre-production be planned?	RO86: Creating a digital animation What are the purposes and features of animation?
YEAR 9	CS	3.4 Computer Systems What are computer systems? How do they work?		3.5 Computer Networks What is a network? How are networks set up? How can networks be made secure?		3.3 Fundamentals of data representation How is data and instructions converted to binary?	
	IMEDIA	RO81: Pre-production skills How can pre-production documents be created?	RO82: Creating Digital Graphics What is the purpose and properties of digital graphics?	RO82: Creating Digital Graphics How can digital graphics be planned for creation?	RO82: Creating Digital Graphics How can digital graphics be created?	RO82: Creating Digital Graphics How can digital graphics be improved?	RO85: Creating a multipage website What are the properties and features of multipage websites?

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YEAR 8	What are the different cyber threats?	How can sorting and searching algorithms be represented in pseudocode?	How can a textual programming language be used to solve a variety of computational problems?	How can ICT be used to solve graphical problems?	How are computer animations made?	How are websites developed?
YEAR 7	How to stay safe online? What is the history of computers?	What are computer systems? How do they work?	What are algorithms? How can they be represented in flowcharts?	How is binary used by computers?	What is programming? How can visual programming be used to create solutions?	How can data be collected and analysed to develop creative solutions?