

	Year 7	Year 8	Year 9	Year 10	Year 11
	7.1 Getting Started Substantive Knowledge: Students will gain knowledge about how interact with the network and the importance of correct folder structure through forming an understanding of how to correctly use Google Suite Analysis: Students must explain how features can improve documents the importance of email etiquette within the working world	8.1 Inside a Computer Substantive Knowledge: Students will learn how each component links to form communication to process instructions Understanding: Students will be understanding the internal and external components functions and how they interact with software. Explain how instructions are processed using the fetch decode execute cycle. Disciplinary Knowledge: Students	9.1 Computational Thinking Substantive Knowledge: Students will learn how to solve problems using computational thinking, through sequence, selection and iteration. Apply: Students will understand	Year 10 GCSE Computer Science Component 1-Computer Systems 1.1 Systems architecture 1.2 Memory & Storage Pupils are introduced to the key characteristics of how a computer works. Pupils will look at different components of the CPU, how the fetch decode execute cycle works with the components. Pupils will then understand why binary is necessary for a computer to function.	Year 11 <u>GCSE Computer Science</u> Component 2 –Computational thinking, algorithms and programming 2.1 Algorithms 2.2 Programming fundamentals Pupils will know how to conduct a bubble. Merge and insertion sorting algorithm as well as know the advantage and disadvantage of each. Pupils will use their disciplinary knowledge to conduct problem solving in python.
Autumn 1	Disciplinary Knowledge: Google Suite skills to ensure a professional structure, layout and content	will be learning how to take a computer tower with internal components apart. Apply: Peers will be able to apply their understanding of computer architecture in their own life, this would allow students to build their own computers, fix problems and allow them to accurately buy products knowing more details about the specification.	Disciplinary Knowledges: Students will harness skills to be able to change algorithms into flowcharts and pseudocode. Students will understand how to search and sort data through algorithms. Understanding: Students should understand how to computationally work out how to solve a problem through the computational thinking stages.	OCR Creative iMedia R093 - Topic Area 1 - The media Industry R093 - Topic Area 2 - Factors influencing product design Pupils are introduced to the different media sectors and	 problem solving in python. <u>OCR Creative iMedia</u> R094 - Visual identity and digital graphics <u>Resits</u> R095 - Characters and Comics R095 - Create and Review characters and comics Pupils will plan, create and review a multipage comic based on the brief from a client. <u>NCFE Business and Enterprise</u> Unit 6: Sources of enterprise funding and business finance Pupils are introduced to business and enterprise funding and finance. Pupils gain an understanding of a range of commonly used financial documents (for example, break-even charts, income statements and statements of



			business can take and associated terminology.	financial position).
Autumn 2	7.2 Digital Behaviours Substantive Knowledge: Students will gain knowledge about cyber crime Understanding: They will form an understanding of different cybercrimes such as, hacking, cyberbullying, phishing, malware and fraudulent emails. Analysis: Students must be able to explain the threats cybercrime poses on society and the importance of the awareness people should have. Skills: A multimedia resource explaining all the different cyber-crimes which can be used to make others aware of the situations people face daily.		GCSE Computer Science Component 1-Computer Systems 1.2 Memory & Storage Pupils are introduced to converting denary numbers into binary and hexadecimal. They will learn new skills in conversions and learn discipline knowledge of how binary is used to store images and sound. Pupils will also learn the different types of compression. OCR Creative iMedia R093 - Topic Area 2 - Factors influencing product design R093 - Topic Area 3 - Pre Production planning Pupils will know the purposes of media – advertise/promote, educate, entertain, inform, influence and understand how style, content and layout – colour, conventions of genre can impact an audience. NCFE Business and Enterprise Unit 2: Market research, market types and orientation and marketing mix Pupils are introduced to the	GCSE Computer Science Component 2 –Computational thinking, algorithms and programming 2.2 Programming fundamentals Pupils will continue to practice how to convert problems into solutions using python. OCR Creative iMedia R094 - Visual identity and digital graphics <u>Resits</u> R095 - Characters and Comics R095 - Create and Review characters and comics Pupils will plan, create and review a multipage comic based on the brief from a client. NCFE Business and Enterprise Planning Pupils are introduced to the purposes and benefits of business and enterprise planning and the sections of a business type, marketing strategy, and financial, physical, and human resources.
			marketing mix. They explore the	



	<u>7.3 Into the Future</u> Substantive Knowledge: Students	8.2 Our Digital Society Substantive Knowledge: Students	<u>9.2 Networking</u> Retrieval: Students will be able to	four key elements of product, place, price and promotion and how these can differ for different business organisations. They also explore market research, market types and orientation types. <u>GCSE Computer Science</u> Component 1–Computer Systems	GCSE Computer Science Component 2 –Computational
Spring 3	will gain knowledge of how technology impacts society through understanding of how technology can change how we live in the future Analysis: Students will apply current knowledge of technology and apply this to different aspects of future advancements within health, education, personal lives and businesses. Disciplinary Knowledge The positives and negatives of the evolution of technology with ethical issues and threats that come with.	will be able to explore the advancements in technology looking at the legal and ethical implications by forming an understanding on how technology is implemented within all areas of society and the impact that has on individuals. Analysis: Students will form balanced arguments looking at the environmental, ethical and legal implications of technology. Disciplinary Knowledge The positives and negatives of the evolution of technology with ethical issues and threats that come with.	use their own knowledge of how to connect to the internet and advance their understanding in networking. Substantive Knowledge: Students will know how devices connect to one another across the world by understanding the difference between the internet and the world wide web. Explain the importance of an IP address and how they differ from DNS. Analyse: Students will be able to analyse different network scenarios and recommend whether a PAN, LAN and WAN would be suitable. They will then delve into the intricacy of networks and recommend the components and how to connect them using the appropriate topology.	1.3 Networks Pupils will understand different types of networks and how different factors can affect the performance of these networks. Pupils will know the hardware	thinking, algorithms and programming 2.3 Producing Robust Programs Pupils will learn how to effectively refine problems using different strategies. Pupils will learn how to test and implement authentication strategies into their programs. <u>OCR Creative iMedia</u> R094 - Visual identity and digital graphics <u>Resits</u> R095 - Characters and Comics <u>Resits</u> Revision for R093 <u>NCFE Business and Enterprise</u> Controlled Assessment (NEA) Pupils are introduced to the controlled assessment tasks. They apply theories and concepts from across the qualification specification in context to skills-based situations by building a portfolio of work.





<u>7.5 Pro</u>	ogramming (Edublocks)	8.4 Pitching and Planning	9.3 Python Programming	GCSE Computer Science	GCSE Computer Science
Summer 5 Summer 5 Summer 5	antive Knowledge: Students an how to program in small earning simple commands gh understanding different ands allowing them to create to allow users to input data. linary Knowledge: coding the correct syntax, aging, using variable, If, Else, Dperators and Boolean. : skills in other areas (algebra) and h(punctuation) to understand amming concepts : Students will be able to an interactive quiz which will the user to answer and e responses. This will be a nation of knowledge, standing and skills. ate: Students will assess their work evaluating their code uggest improvements to be	Substantive Knowledge: Students will be able to combine text, images and interactive features to present information to pitch an idea for a business. Analysis: Students will be able to explain the importance of being an entrepreneur and the opportunities available to be successful. Disciplinary Knowledge Students will learn image editing techniques such as colour splash, crop, colour fill, effects and background removal. They will also learn how text and images can be presented differently depending on the purpose and audience. Students will gain presenting opportunities to pitch their enterprise using the advertising campaign.	Retrieval: Students will use their knowledge of command words from Small Basic to learn a new programming language. Substantive Knowledge: Students will be able to code their own algorithms within python, recapping their understanding of algorithms from 9.1 Computer Science Starter. Disciplinary Knowledge Students will be coding their own programs with different complexities using different command words and operators to compare conditions. Evaluating: Students will be critiquing their own code and their peers to ensure that the programs are effective and to progress using iteration with ease. Create: Students will be creating a variety of complex programs from calculators to games.	Component 1–Computer Systems 1.6 Ethics, Legal and Environmental Impact on Technology Pupils will learn about how technology in society can have positive and negative implications which can impact people ethically, morally, legally and environmentally. <u>OCR Creative iMedia</u> R093 - Topic Area 4 - Distribution considerations Pupils will understand the different types of file formats and how the files can be distributed to customers and clients. Pupils will also understand the different types of compression needed for distribution. <u>NCFE Business and Enterprise</u> Unit 5: Business Growth Pupils are introduced to business and enterprise growth covering both internal and external growth, the efficiencies and costs of business and enterprise expansion and the challenges of growth	J277 Revision Component 1–Computer Systems Component 2 –Computational thinking, algorithms and programming Through the use of past papers and other revision resources pupils will further develop their exam technique in preparation for their examination. <u>OCR Creative iMedia</u> Revision for R093 Through the use of past papers and other revision resources pupils will further develop their exam technique in preparation for their examination. <u>NCFE Business and Enterprise</u> Exam Preparation Through the use of past papers and other revision resources pupils will further develop their exam technique in preparation for their NCFE examination.



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