

Key Stage 4: Creative iMedia Plan 2022/23

	Autumn	Spring	Summer
Information Technoloღv Year 10	 R094 – Visual identity and digital graphics Knowledge: Design a concept for the visual identity referenced to the client in the set task Justify why the visual identity you developed is suitable for the identified client Produce planning documentation for the digital graphic product referenced in the set task Create an effective visual identity which has the correct properties and is appropriate Prepare assets for use in the digital graphic Create the digital graphic planned in Topic Area 2 Apply design concepts and layout conventions to the digital graphic Ensure the format of the digital graphic is appropriate Skills: Research, planning, creation and reviewing digital graphics using different software 	 R093 - Creative iMedia in the Media Industry Knowledge: Media industry sectors and products Job roles in the media industry How style, content and layout are linked to the purpose Client requirements and how they are defined Audience demographics and segmentation Research methods, sources and types of data Media codes used to convey meaning, create impact and engage audiences Pre-production planning Document used to support ideas generation Documents used to design and plan media products The legal issues that affect media Legal considerations to protect individuals Intellectual property rights Regulation, certification and classification Health and safety Distributed platforms and media to reach audiences Properties and format of media files (image, audio, moving images) File compression 	 R097 – Interactive Digital Media Knowledge: Produce an interpretation of a client brief for a given set task Explain how the intended product meets the client brief and how it appeals to the target audience Produce pre-production and planning documentation Create component parts of the interactive digital media product Create the interactive digital media product to a suitable format with suitable properties Review the interactive digital media product for its effectiveness Produce recommendations for areas of improvement and future development Skills: Research product types and platforms, useplanning tools to plan the concept, design and review the product proposal



		R087 – Interactive Multimedia Producs	R081 Revision if resitting in January 2023
	Year 11	Knowledge:	Knowledge:
		 Purpose of interactive multimedia products properties of interactive multimedia products Client requirements and target audience Work plan Producing ideas Legal restrictions 	 Purpose and content of pre-production Plan pre-production Produce pre-production documents Review pre-production documents Skills: Research, planning, creation and reviewing pre-
		 Obtain and edit assets Create interactive multimedia products Review and evaluate interactive multimedia products Skills: Research, planning, creation and reviewing 	production documents using different software
		using different software	



Key Stage 4: Computer Science Curriculum Plan 2022/23

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Computer Science	Year 10	 TOPIC 1: Data Representation Knowledge: Conversions from binary to denary to Hex Binary additions and shifts ASCII and Unicode Check digits Characters Images Sound Compression 	 TOPIC 2: System Architecture Knowledge: The central processing unit Components of the CPU Fetch-Decode-Execute Cycle 1 and 2 Performance of the CPU Embedded systems 	 TOPIC 3: Secondary Storage Knowledge: Optical and magnetic devices Solid-state memory Capacity, speed and cost Portability, durability and reliability TOPIC 4: Memory Knowledge: RAM and ROM Virtual memory 	 TOPIC 4: Programming Techniques Knowledge: Variable and constants Arithmetic operators Comparison operators Boolean operators Selection Iteration Data Types String manipulation Arrays File handling operations Records SQL Sub-programs 1 & 2 	 TOPIC 5: Wired and Wireless Networks Knowledge: LANs and WANs Client-Server & Peer-to-Peer Transmission media Connecting computers to a LAN The Internet 	 TOPIC 6: Network Topologies, Protocols and Layers Knowledge: Network topologies Protocols 1- browsers and email clients Protocols 2 – Network layers Protocols 3 – Benefits of layers Packets and packet switching



		TOPIC 7: Computational	TOPIC 9: Translatorsand	TOPIC 11: Producing	TOPIC 5: Algorithms	REVISION	REVISION
		LogicKnowledge:	facilities of languages	robust Programs	Knowledge:		
		 Computational 	Knowledge:	Knowledge:	 Computational thinking 		
		logic 1	 Programming 	Defensive design	 Algorithms 		
		Computationallogic 2	languages	 Testing and 	 Pseudocode 		
			 Translators 	maintenance	 Flow diagrams 		
		TOPIC 8: Ethical, legal,	 Integrated 	TOPIC 12: Boolean	 Search algorithm - 		
		cultural and	development	Logic	linear		
		environmental	environment	Simple logic diagrams	 Search algorithm - 		
a		concernsKnowledge:	TOPIC 10: Producing	using AND, OR and NOT	binary		
Science		Environmental	robust Programs	Truth tables	 Comparing linear and 		
ie		andlegal issues	Knowledge:	Combining Boolean	binary		
Sc	11	Cultural issues 1 & 2	Defensive design	operators using AND<	 Sort algorithm – 		
er	ar	Environmental issues	Testing and	OR an NOT	bubble		
Computer	Yeaı	Privacy issues	maintenance	Applying logical	 Sort algorithm – 		
du		Legislation 1 & 2		operators n truth tables	insertion		
on		 Proprietary and open- source software 		to solve problems	Sort algorithm – merge		
Ŭ		source software			 Interpreting, correcting 		
				REVISION	and completing algorithms		
					0		
					 Using trace tables 		
					REVISION		