

COMPUTATIONAL THINKING (CT) CURRICULUM STATEMENT

Computational Thinking focusses on developing student confidence and resilience when tackling problems using technology. Computational Thinking is the fundamental stages of creativity. It is the bedrock of the CT curriculum at The Trafalgar School at Downton because it develops confidence through a rigid and accessible framework. The CT department will be successful when students can recognise a problem and have the skills and competencies to solve it using their knowledge of technology such that this confidence then develops resilience when facing new and potentially difficult challenges throughout their life.

CURRICULUM INTENT - *CURRICULUM IMPACT

- a. Students will learn how to program a computer system using graphical and text based computer languages so that *they are able to make a computer system solve problems for them.
- b. Students will learn how to clearly describe their ideas as algorithms so that *they can communicate those ideas unambiguously with others.
- c. Students will understand how computer systems represent, store and communicate information around the world so that *they can access new and growing industries that use computer technology.
- d. Students will learn how computer technology can be used maliciously so that *they can better protect themselves.

Terms 1 2 3 4 5 Problem solving & coding basics Yr7 Units Problem solving & eSafety & essential digital Data science & spreadsheets Computer game coding literacy #KNOWIT Knowing the dangers #CODEQ Learning and applying the **#THINKCT Essentially learning** #CODEQ Developing previous #CODEQ Learning a **Key learning** and learning how to stay safe x4 principles of coding using how to manipulate and Scratch coding skills to create the x4 principles of online. Scratch. graphically display data using computer games. Scratch. spreadsheets. Assessment Online assessment on eSafety Online assessment & classroom Assessment of spreadsheet skills Online assessment & classroom Online assessment assessment of coding challenges assessment of coding challenges assessment of codin knowledge eSafety & essential digital Yr8 Units Problem solving & Python coding **Digital literacy Computer systems** Data science & spre literacy **#KNOWIT** Recapping the #KNOWIT Understand how the #KNOWIT Learning how computer **#THINKCT Essential Key learning** #CODEQ Developing previous dangers and learning how to Python coding knowledge to create World Wide Web can be used to systems are made up of switches. to manipulate and stav safe online. readable, maintainable code. influence opinion. display data using s Online assessment on eSafety Online assessment & classroom Assessment of spre Assessment Classroom discussion and online Online assessment assessment of coding challenges assessment knowledge Yr9 Units Cyber security Data representation in a binary **Computer systems** Vector animation Web design world #KNOWIT Understanding, **#KNOWIT Understanding how #KNOWIT** Developing previous #KNOWIT Learning how to create #CODEQ Learning h **Key learning** through practice, how computer digital computers encode the world understanding on how computer and develop practic vector animations using an systems are vulnerable to into binary (1's and 0's). industry recognised tool, Blender. responsive modern systems are made. attack. Online assessment Assessment Classroom practical activities Online assessment Online assessment Online assessment & assessment of classroom challenges of classroom challe

CURRICULUM IMPLEMENTATION (SEQUENCING)

	6
coding basics	Physical computing & introduction to Python
nd applying coding using	#CODEQ Learning how to program microcontrollers and introducing the text based language, Python.
& classroom ng challenges	Online assessment & classroom assessment of coding challenges
eadsheets	Algorithms
ly learning how graphically preadsheets.	#KNOWIT Learning how to describe solutions using structured English and flowcharts.
adsheet skills	Online assessment & assessment of classroom challenges
	Data science
ow to design cal, useful and websites.	#THINKCT Developing previous data science & spreadsheet skills to solve hypotheses.
& assessment nges	Online assessment & assessment of classroom challenges

Terms	1	2	3	4	5	6
Yr10 Units	Cyber security & data	Networks & networking	Ethical, cultural &	Software & common algorithms	Robust programming	NEA
	representation		environmental impact of			
			computing			
Key learning	#KNOWIT Developing previous	#KNOWIT Understanding how	#KNOWIT Understanding how	#KNOWIT: A split term that looks	#CODEQ Developing previous	#CODEQ This term is dedicated to
	understanding, through	networks are useful and vulnerable.	computers have impacted our	at the benefits and the drawbacks	Python coding skills, students look	completing the Non Examined
	are vulnerable to attack and	How data is sent across them	specific greas: ethical cultural	software, then studying how	at writing code that is readable,	the GCSE
	how to create policy to protect		and environmental	search and sort algorithms can do		the OCSE.
	against vulnerabilities.			the same job, but in different ways		
				resulting in different costs.		
				_		
Assessment	Classroom challenges, online	Classroom challenges, online	Classroom challenges, online	Classroom challenges, online	Online assessment & classroom	10 hour GCSE assessed work
	assessment and exam	assessment and exam questioning	assessment and exam	assessment and exam questioning	assessment of coding challenges	
	questioning		questioning			
Vr11 Units	Data representation	Common algorithms & networking	Computer systems ethics &	General revision & exam practice		
init onits	Duta representation	control algorithms & networking	software			
Key learning	#REVISE Developing previous	#REVISE Developing previous	#REVISE Developing previous	#MASTERY General revision of all to	pics with heavy emphasis on exam	
	understanding of how computer	understanding of the x5 common	understanding of how	practice leading up to the GCSE example	n.	
	encode the world in binary with	algorithms and digital network with	computers are made, the impact			
	emphasis on exam technique.	emphasis on exam technique.	of computers on society and			
			types of software with emphasis			
			on exam technique.			
Assessment	Online assessment & classroom	Online assessment & classroom	Online assessment & classroom	Online assessment & classroom asse	assment of coding challenges	4
Assessment	assessment of coding challenges	assessment of coding challenges	assessment of coding challenges		country chancinges	
	discontent of county chancinges	assessment of county endienges				

CURRICULUM PROGRESSION MAPPING

COMPUTATIONAL THINKING (CT) - CORE KNOWLEDGE & SKILLS - PROGRESSION MAPPING						
CONCEPT	INTERVENTION	EMERGING	DEVELOPING	MASTERING	EXTENDING	BEYOND
Communication of concepts and solutions	Students understand that we live in algorithmic times and that solutions can be written down in a way that others can replicate.	Students express a simple sequence using structured English and simple flowchart symbols.	Students express and understand a solution using loops and decision making in structured English and simple flowchart symbols.	Students express and understand a solution with loops and decision making in structured English, flowchart symbols and pseudocode.	Students unambiguously express and understand a solution with loops and decision making in structured English, flowchart symbols and pseudocode.	Students unambiguously express and understand a solution of increased sophistication with loops and decision making in structured English, flowcharts and
Developing coded solutions	Students understand that computers can follow instructions that must follow specific grammar and spelling rules otherwise errors will occur.	 Students understand the principles of coding using a block programming language: Variables Input/Output Loops Decision making At this stage students should be able to copy code with support. Students should be able to express a solution to a simple problem using Structured English or flowcharts. 	 Students understand that code should be written to be readable and maintainable. Those rules are: Name all variables, sprites and sub-routines appropriately Convert all repeated instructions into loops At this stage students should be able to copy code from an algorithm or pseudocode accurately without support. Students should be able to analyse a given simple problem and: Break a simple problem down into sub-problems 	 Students understand that code should be written to be readable and maintainable. Those rules are: Name all variables, sprites and sub-routines appropriately Convert all repeated instructions into loops Convert repeated functionality into sub-routines Comment code to enable 3rd party to understand it At this stage, students should be able to extend/modify existing code. 	 Students understand that code should be written to be readable and maintainable. Those rules are: Name all variables, sprites and sub-routines appropriately Convert all repeated instructions into loops Convert repeated functionality into sub-routines Comment code to enable 3rd party to understand it At this stage, students should be able to extend/modify existing code and add their own coded ideas, 	 Students understand that code should be written to be readable and maintainable. Those rules are: Name all variables, sprites and sub-routines appropriately Convert all repeated instructions into loops Convert repeated functionality into sub-routines Comment code to enable 3rd party to understand it At this stage, students should be able to extend/modify existing code and add their own coded ideas.

			Express a solution in terms of a diagram or flowchart or structured English	 Students should be able to analyse a given simple problem and: Abstract a simple problem removing unnecessary details Break a simple problem down into sub-problems Express a solution in terms of a diagram or flowchart, structured English or pseudocode 	 albeit not to any depth or sophistication. Students should be able to analyse a given complex problem and: Abstract a complex problem removing unnecessary details Break a complex problem down into sub-problems Express a solution in terms of a diagram or flowchart, structured English or pseudocode 	 This code will be sophisticated and complex. Students should be able to identify and analyse a complex problem and: Abstract a complex problem problem removing unnecessary details Break a complex problem down into sub-problems Express a solution in terms of a diagram or flowchart, structured English or pseudocode
Representing, storing and communicating information	Students will start to understand the concept of binary as a numbering system that comprises of 1 and 0.	Students understand that computers are essentially made up of switches that can be on or off. This is the basis of how all data is stored: 1 and 0. Therefore the world needs to be encoded in terms of 1 and 0.	Students will understand the concept of binary and that computers encode the world using binary, in particular images as bitmaps and sound as samples. Students will also understand the base-16 (hexadecimal) number system and how to convert between base-2, 10 and 16.	Students will understand the concept of binary and that computers encode the world using binary, in particular images as bitmaps and vectors, sound as samples and MIDI and characters in terms of ASCII and Unicode. Students will also understand the base-16 (hexadecimal) number system and how to convert between base-2, 10 and 16. Students should be aware of the relative merits or each technique and be aware of the space implications of files created using these techniques. Students will be aware of the concept of lossy and lossless compression and that compression seeks to reduce binary file sizes.	Students will understand the concept of binary and that computers encode the world using binary, in particular images as bitmaps and vectors, sound as samples and MIDI and characters in terms of ASCII and Unicode. Students will be comfortable with the base-16 (hexadecimal) number system and how to convert between base-2, 10 and 16. Students will be fully aware of the relative merits of each technique and be fully aware of the space implications of files created using these techniques and how to calculate space requirements based on a given usage condition. Students will be understand how lossy and lossless compression works on reducing binary file sizes and which compression type is required in a given situation.	Students will understand the concept of binary and that computers encode the world using binary, in particular images as bitmaps and vectors, sound as samples and MIDI and characters in terms of ASCII and Unicode. Students will be comfortable with the base-16 (hexadecimal) number system and how to convert between base-2, 10 and 16. Students will be fully aware of the relative merits of each technique and be fully aware of the space implications of files created using these techniques and how to calculate space requirements based on a given usage condition. Students will be understand how lossy and lossless compression works on reducing binary file sizes and which compression type is required in a given situation and use compression where necessary.
Safe use ICT	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking.	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking. Students will know the importance of strong passwords and what a strong password is.	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking. Students will be know how to create and use strong passwords in everyday digital life.	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking. Students will be know how to create and use strong passwords in everyday digital life.	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking. Students will be know how to create and use strong passwords in everyday digital life.	Students will be aware of the dangers of being online and will know 6 simple rules to stay safe online, including phishing, sexting, viruses and account vulnerabilities through hacking. Students will be know how to create and use strong passwords in everyday digital life.
Digital networks	Students will know what encoding and signalling is and where it is used in the real world.	Students will be able to encode a simple alphabet in binary and develop a simple protocol to transmit, albeit simplistically, a short message over a distance of 5 meters.	Students will understand the benefits and drawbacks of networking. Students will understand about encoding and signalling and be able to encode and transmit a simple message over a 5 meter distance using a protocol of their own design.	Students will understand the benefits and drawbacks of networking and be able to list a few things that network managers must think about for the network policy document. Students will understand about encoding and signalling and be able to encode and initiate, transmit and	Students will understand the benefits and drawbacks of networking and be able to list the important aspects that network managers must think about for the network policy document including network threats (including threat vectors).	Students will understand the benefits and drawbacks of networking and be able to list the important aspects that network managers must think about for the network policy document including network threats (including threat vectors).

			Students will understand that a digital network is made up of 2 or more nodes and that to communicate protocols are required. They will be aware of the TCP/IP protocol stack and how data must be encapsulated into packets using IP before it can be sent over a network. Students will understand the basics of the Internet and how the Internet is made up of routers.	stop an accurate simple message over distance that is beyond verbal communication using a protocol of their own design. Students will understand that a digital network is made up of 2 or more nodes and that to communicate protocols are required. They will be aware of the TCP/IP protocol stack and how data must be encapsulated into packets using IP before it can be sent over a network. They will understand other common protocols in the stack and what they are used for and explain why the TCP/IP protocol stack was created. Students should be aware of client/server and peer-to-peer networks. Students will understand the basics of the Internet and how the Internet is made up of routers, gateways, switches, DNS and firewalls. They will understand the benefits of the MESH network design. Students will be able to design simple networks taking in to account network performance issues.	Students will understand about encoding and signalling and be able to encode and initiate, transmit and stop an accurate message over distance that is beyond verbal communication using a protocol of their own design. Students will understand that a digital network is made up of 2 or more nodes and that to communicate protocols are required. They will be aware of the TCP/IP protocol stack and how data must be encapsulated into packets using IP before it can be sent over a network. They will understand all other protocols in the TCP/IP stack and what they are used for and explain why the TCP/IP protocol stack was created. Students should be aware of client/server and peer-to-peer networks and explain the advantages and drawbacks of each. Students will understand the basics of the Internet and how the Internet is made up of routers, gateways, switches, DNS and firewalls. They will understand the benefits of the MESH network design. Students will be able to design simple networks, ensuring performance is maximised.	Students will understand about encoding and signalling and be able to encode and initiate, transmit and stop an accurate message over distance that is beyond verbal communication using a protocol of their own design. Students will understand that a digital network is made up of 2 or more nodes and that to communicate protocols are required. They will be aware of the TCP/IP protocol stack and how data must be encapsulated into packets using IP before it can be sent over a network. They will understand all other protocols in the TCP/IP stack and what they are used for and explain why the TCP/IP protocol stack was created. Students should be aware of client/server and peer-to-peer networks and explain with confidence the advantages and drawbacks of each. Students will understand the basics of the Internet and how the Internet is made up of routers, gateways, switches, DNS and firewalls. They will understand the benefits of the MESH network design. Students will be able to design simple networks, ensuring performance is maximised. Students will know the specifics of how actual routers and switches are configured. They will be able to design networks with performance in mind and be able to assign IP addresses and subnet masks.
Data science	Students will understand that a spreadsheet can store lists of numbers, perform simple calculations and create graphs.	Students will be able to use a spreadsheet to store and format lists of numbers, perform simple calculations using the SUM() and AVE() functions. Students will be able to sort numbers. Students will be able to create simple graphs that include a title and legend. Students should know what a hypothesis is.	Students will be able to use a spreadsheet to store and format lists of numbers, perform simple data manipulation using the SUM(), AVE(), CONCATENATE() and AVE() functions. Students will be able to sort numbers based on a criteria. Students will be able to assign conditional formatting on data sets based on a criteria. Students should be able to analyse a given simple hypothesis and derive simple questions to ask to collect data which is then stored	Students will be able to use a spreadsheet to store and format lists of numbers, perform data manipulation using the SUM(), AVE(), CONCATENATE() LEFT(), MID(), RIGHT() and AVE() functions. Students will be able to sort numbers based on a criteria. Students will be able to assign conditional formatting on data sets based on a criteria. Students should be able to analyse a given simple hypothesis and derive simple questions to efficiently collect data which is	Students will be able to use a spreadsheet to store and format lists of numbers, perform data manipulation using the SUM(), AVE(), CONCATENATE() LEFT(), MID(), RIGHT() and AVE() functions. Students will be able to sort numbers based on multiple criteria. Students will be able to assign conditional formatting on data sets based on a complex criteria. Students should be able to analyse a given hypothesis and derive questions to efficiently collect data which is then stored and manipulated using a spreadsheet.	Students will be able to use a spreadsheet to store and format lists of numbers, perform data manipulation using the SUM(), AVE(), CONCATENATE() LEFT(), MID(), RIGHT() and AVE() functions. Students will be able to sort numbers based on multiple criteria. Students will be able to assign conditional formatting on data sets based on a complex criteria. Students should be able to analyse a given hypothesis and derive questions to efficiently collect data which is then stored and manipulated using a spreadsheet.

Landura	Ctudopte chould be success that	Students should be successible t	and manipulated using a spreadsheet. Students should be able to create simple graphs that include a title and legend to help solve a given hypothesis. Students should be able to use a graph to solve the hypothesis.	then stored and manipulated using a spreadsheet. Students should be able to create simple graphs that include a title and legend to help solve a given hypothesis. Students should be able to use their graphs to solve the hypothesis and give a reasoned answer based on collected data.	Students should be able to create graphs that include a title and legend to help solve a given hypothesis. Students should be able to use their graphs to solve the hypothesis and give a reasoned answer based on collected data.	Students should be able to create graphs that include a title and legend to help solve a given hypothesis. Students should be able to use their graphs to solve the hypothesis and give a reasoned answer based on collected data. Students should be able to use coded scripts to automate any part of the data handling cycle.
	computers are made up of switches. They should know that a computer is constructed of a CPU, RAM and peripherals.	computers are made up of switches and that these are now known as transistors and are very small. They should know that a computer is constructed of a CPU, RAM and peripherals all connected together by a system bus. Students should be aware that a CPU is made up of the logic gates: OR, AND, NOT. Students should be aware that logic can be described in terms of diagrams and truth tables.	computers are made up of switches and that these are now known as transistors and are very small. They should know that a computer is constructed of a CPU, RAM and peripherals all connected together by a system bus. They should also know that the CPU is made up of common components and registers; MDR, MAR, CIR, CU, ALU, Accumulator, clock. Students should be aware of the fetch/execute cycle. Students should be aware that a CPU is made up of the logic gates: OR, AND, NOT. Students should be aware that logic can be described in terms of diagrams, expressions and truth tables.	computers are made up of switches and that these are now known as transistors and are very small. They should know that a computer is constructed of a I/O, CPU, RAM, ROM and peripherals all connected together by a system bus. They should also know that the CPU is made up of common components and registers; MDR, MAR, CIR, CU, ALU, Accumulator, clock. Students should be aware of the fetch/execute cycle. Students should be aware that a CPU is made up of the logic gates: OR, AND, NOT. Students should be aware that logic can be described in terms of diagrams, expressions and truth tables and be able to convert simple logic between all three. Students should understand that any source code above generation 1 needs to be translated into machine/object code before it can be understood by a computer. Understand that each CPU can understand a set of instructions. Students need to be aware of the differences between Harvard and Von Neumann architectures and CISC and RISC chips.	computers are made up of switches (now called transistors which can be 5nm in size). Transistors enable the encoding of data as 1 and 0. They should know how a computer is constructed using a I/O, CPU, RAM, ROM and peripherals all connected together by a system bus. They should also know that the CPU is made up of common components and registers; MDR, MAR, CIR, CU, ALU, Accumulator, clock. Students should be able to explain the fetch/execute cycle. Students should be aware that a CPU is made up of the logic gates: OR, AND, NOT. Students should be aware that logic can be described in terms of diagrams, expressions and truth tables and be able to convert complex logic between all three. Students should be able to explain the difference between translation and compilation of source code into object code before it can be understood by a computer. Students should be comfortable with assembly language programs. Understand that each CPU can understand a set of instructions. Students need to be aware of the differences between Harvard and Von Neumann architectures and CISC and RISC chips.	computers are made up of switches (now called transistors which can be 5nm in size). Transistors enable the encoding of data as 1 and 0. They should know how a computer is constructed using a I/O, CPU, RAM, ROM and peripherals all connected together by a system bus. They should also know that the CPU is made up of common components and registers; MDR, MAR, CIR, CU, ALU, Accumulator, clock. Students should be able to explain the fetch/execute cycle. Students should be aware that a CPU is made up of the logic gates: OR, AND, NOT. Students should be aware that logic can be described in terms of diagrams, expressions and truth tables and be able to explain the difference between all three. Students should be able to explain the difference between translation and compilation of source code into object code before it can be understood by a computer. Students should be able to write assembly language programs. Understand that each CPU can understand a set of instructions. Students need to be aware of the differences between Harvard and Von Neumann architectures and explain where each is best suited. Students should be able to explain the advantages and drawbacks of CISC and RISC chips.
Ethical, legal, cultural and environmental use of technology	Students should understand that technology does have an impact on the World. That our society, environment and legal system are affected by technology.	Students should understand that technology does have an impact on the World. That our society, environment and legal system are affected by technology.	Students should understand that technology does have an impact on the World. That our society, environment and legal system are affected by technology. Students should be aware of:	Students need to be able to explain the impact of technology within a given context in the following ways: • Ethical • Cultural	Students need to be able to explain, with confidence and examples, the impact of technology within a given context in the following ways: • Ethical	Students need to be able to explain, with confidence and examples, the impact of technology producing a context themselves, in the following ways:

		Students should be aware of the	The Data Protection Act	Legal	Cultural	Ethical
		Data Protection Act and how digital	The Computer Misuse Act	Environmental	• legal	Cultural
		information can be owned by	The Freedom of	Privacy	Environmental	• legal
		someone.	Information Act	Students need to be able to	Privacy	Environmental
			Students should know that digital	understand the basic concepts of	Students need to be able to explain	Privacy
			information can be owned by	the following technology related	the following technology related	Students need to be able to explain
			someone and may need to be paid	legislation:	legislation:	with confidence the following
			for.	The Data Protection Act	The Data Protection Act	technology related legislation .
			-	The Computer Misuse Act	The Computer Misuse Act	The Data Protection Act
				The Converte Designs	The Converte Designs	The Computer Misuse Act
				and Patents Act	and Patents Act	The Conjugate Misuse Act The Conjugate Designs
				The Freedom of	The Freedom of	and Patents Act
					Information Act	The Freedom of
				Creative Commons	Creative Commons	Information Act
						Creative Commons
				Students should be able to attempt	Students should be able to correctly	
				to classify what law a given illegal	classify what law a given illegal	Students should be able to correctly
				activity would be subject to.	activity would be subject to.	classify what law a given illegal
						activity would be subject to and cite
						case law examples.
Digital Literacy	Students should know how to use a	Students should be able to navigate	Students should be able to navigate	Students should be able to navigate	Students should be able to navigate	Students should be able to navigate
- 18.000 - 1001 000y	specific file system to save and	and search a specific file system to	and search any file system to save	and search any file system to save	and search any file system with	and search any file system with
	retrieve a file.	save or retrieve a specific file.	or retrieve a specific file.	or retrieve a specific file.	confidence to save or retrieve a	confidence to save or retrieve a
	Students should be aware that 'free	Students should be aware that it is	Students should be aware that it is	Students should be aware that it is	specific file.	specific file.
	websites' are not necessarily free	important to give files appropriate	important to give files appropriate	important to give files appropriate	Students should be aware that it is	Students should be aware that it is
	but information collected is then	filenames in order to better	filenames and to store files in	filenames and to store files in	important to give files appropriate	important to give files appropriate
	used in personalised advertising.	organise our files.	appropriate folder structures in	appropriate folder structures in	filenames and to store files in	filenames and to store files in
		Students should be aware of	order to better organise our files.	order to better organise our files.	appropriate folder structures in	appropriate folder structures in
		concepts such as:	Students should be understand how	Students should understand and be	order to better organise our files.	order to better organise our files.
		Fake news	the following concepts can affect	able to explain how the following	Students should understand and be	Students should be able to explain
		 How data is collected 	them:	concepts can affect them in a given	able to explain how the following	with confidence how the following
		about us and used to	Fake news	context:	concepts can affect them in a	concepts can affect them in a
		create a picture of how we	How data is collected	Fake news	context provided by them:	context provided by them:
		live	about us and used to	How data is collected	Fake news	Fake news
		Deep fakes	create a picture of how we	about us and used to	How data is collected	How data is collected
		Trolling	live	create a picture of how we	about us and used to	about us and used to
		-	Deep fakes	live	create a picture of how we	create a picture of how we
			Trolling	Deep fakes	live	live
				Trolling	Deep fakes	Deep fakes
					Trolling	Trolling
					Students should be able to explain	Students should be able to explain
					how these concepts can affect	with confidence how these
					society.	concepts can affect society.



Creative iMedia – Curriculum Statement

Creative iMedia will equip learners with a range of creative media skills and provide opportunities to develop, in context, desirable, transferable skills such as research, planning, and review, working with others and communicating creative concepts effectively. Through the use of these skills, learners will ultimately be creating fit-for-purpose creative media products.

Creative iMedia will also challenge all learners, including high attaining learners, by introducing them to demanding material and techniques; encouraging independence and creativity and providing tasks that engage with the most taxing aspects of the National Curriculum.

CURRICULUM INTENT - *CURRICULUM IMPACT

- a. Students will learn how to research different forms of media so that *they can better understand the different trends that might affect their Digital Graphics project
- b. Students will learn how to accurately use different pre-production documents so that *they are able to plan for a Digital Graphics project
- c. Students will learn how to use different forms of graphic design programs so that *they are able to create their final Digital Graphics
- d. Students will learn how to review different pieces of media for clear pros and cons so that *they can analyse their own Digital Graphics more precisely

Terms	1	2	3	4	5
Yr10 Units	Pre-Production Documents	Pre-Production Documents – Group	Pre-Production Exam	Image editing software	Reviewing Digital G
		based	Introduction to Digital graphics		Digital Graphics Mo
					Assessment
Key learning	#LEARNING: Understanding and	#LEARNING: Understanding the	Preparing for Pre-Production	#LEARNING: Developing new skills	#LEARNING:
	creating different documents	different aspects of group work and	Exam	with image editing software with a	
	used in the planning of different	what documents will be needed		focus on layering different images	
	types of Digital Graphics.	when planning for different projects	#LEARNING: Understand and	and retouching damaged or	
			research the different types of	pixelated images.	
			Digital Graphics in industry and		
			what type of technical data		
			images have.		
Assessment	Weekly document creation and	Weekly document creation and 10	GCSE Exam	Weekly Client style projects and	10 hours Mock asse
	assessment.	hour group project assessment.	Classroom tasks with online	assessments.	
			assessment.		
Yr11 Units	Data representation	Common algorithms & networking	Computer systems, ethics, &	General revision & exam practice	
			software		
Key learning	#REVISE Developing previous	#REVISE Developing previous	#REVISE Developing previous	#MASTERY General revision of all to	pics with heavy emph
	understanding of how computer	understanding of the x5 common	understanding of how	practice leading up to the GCSE example	n.
	encode the world in binary with	algorithms and digital network with	computers are made, the impact		
	emphasis on exam technique.	emphasis on exam technique.	of computers on society and		
			types of software with emphasis		
			on exam technique.		
Assessment	Online assessment & classroom	Online assessment & classroom	Online assessment & classroom	Online assessment & classroom asse	essment of coding cha
	assessment of coding challenges	assessment of coding challenges	assessment of coding challenges		

CURRICULUM IMPLEMENTATION (SEQUENCING)

	6
raphics	Digital Graphics Mock
ock	Assessment
	Digital Graphics Assessment
	#CODEQ This term is dedicated to
	completing the Non Examined
	Assessment (coursework) part of
	the GCSE.
ssment.	10 hours Mock assessment.
	10 hour GCSE assessed work
Idsis on exam	
allenges	