	Year 10 IT WJEC	Year 10 CS	Year 11 Business Studies	Year 11 WJEC	Year 11 CS	Year 12	Year 13
	Functionality of different	Components of a computer	Organisational structures	Unit 2: ICT in Context	lssues	Fundamentals of IT	Project management
	hardware	system					
	devices/software/services						
it .	provided by IT support						
'n							
	Understanding types of	The purpose of the CPU		2.1 Planning, creating, modifying and using	Impacts of digital technology	Understand computer hardware	
	0 /1	The fetch-execute cycle	To understand internal organisational	databases	on wider society including:	1.1 Computer hardware, i.e.:	
	Computing devices	Common CPU components and	structures, span of control, chain of command,	2.2 Planning, creating, modifying and using	Ethical issues	input devices	Internet of everything:
	Input devices	their function	delayering and delegation.	spreadsheets	Legal issues	output devices	
	Output devices	ALU (Arithmetic Logic Unit)	To understand why businesses have internal	2.3 Planning, creating and modifying an	Cultural issues	communications devices	1.1 Things, i.e.:
	storage devices	CU (Control Unit)	organisational structures.	automated	Environmental issues	benefits (e.g. integrated devices make portable	physical objects
	Internal components	Cache Registers	To understand the impact that having a tall or	document	Brivaov issues	devices simpler to use)	experiential interactions aids to poople
	ports	Von Neumann architecture	flat organisational structure has on how a	storing images	Legislation relevant to	noisy environments)	• aids to society/community
	system software	MAR (Memory Address	business is managed.	5101 II.B III.B B55	Computer science	• uses (e.g. membrane keyboard could be used in	machines
	applications software	Register)	To understand how an organisational		The data protection act 2018	harsh physical environments)	1.2 Where the IoE is used
	utility software	MDR (Memory Data Register)	structure may affect the different ways of		Computer misuse act 1990	1.2 Computer components, i.e.:	1.3 Applications of the use of the IoE, i.e.:
	specialist software	Program Counter Accumulator	communication.		Copyright designs and patents	• processors	body/health
	information handling	How common characteristics of		analyse requirements to a specified client	act 1988	• motherboards	home/garden
	software	CPU's affect their performance	Main stages in the recruitment and selection	brief • identify success criteria • identify the	Software licences (i.e. open	• storage (i.e. hard drive, solid state, flash, internal,	• city/neighbourhood
	communication software	Clock speed	process include an understanding of job	hrief • design a database structure including	source and proprietary)	ports (i.e. LISB Firewire SATA Network Fibre	• Industry • the environment
	communication software	Number of cores	and selection methods	tables, relationships, forms, queries,		Channel)	1.4 Global impacts, i.e.:
	image capture and			reports, fields, primary and foreign keys,		• memory (i.e. RAM, ROM, cache)	• positive
	manipulation		Benefits include high productivity, high quality	data types, field properties, validation rules		2.1 Types of software, i.e.:	negative
	webcam services		output or customer service and staff retention	minimising data redundancy • give detailed		open source	• cost savings
	social networking			justification for field types used • justify		closed source	increased productivity
	e commerce			their choice of validation rules applied to		• off the shelf	new sources of revenue
	banking			field types.		bespoke charoware	ennanced citizen experiences 5 The four pillars of the IoE i o :
	control processes					• freeware	• neonle
	AI and expert systems					• embedded	• data
	Robotics and bionics					characteristics	• process
	Online shopping					• use	 things (devices and objects)
	Online booking					2.2 Applications software, i.e.:	1.6 People, i.e.:
	Registration systems					• productivity software (i.e. word processor,	• students
						spreadsheet, database, email)	members of society connecting needle in relevant wave
es						translator integrated design environment)	• connecting people in relevant ways
ctiv						business software (i.e. MIS. multimedia.	
bje						collaboration, project management, manufacturing,	
0						CAD/CAM, publishing, expert systems, healthcare	
	B1, B2, B3	A5, A6, A8, B1	NA	B1, B2, B3	A8, A9, B1	N/A	N/A
sk e							
hei							
ž٤							
	Tier 2 identify, describe,	Tier 2 identify, describe,	Tier 2 State, identify, describe, analyse,	Tier 2 analyse, evaluate, compare, discuss,	Tier 2 analyse, evaluate,	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss,	Tier 2 State, identify, describe, analyse, evaluate,
	explain, analyse	explain, analyse	evaluate, compare, discuss,		compare, discuss,	Hardware, input, output, communication, environment, storage,	compare, discuss,
				Characteristics, text, number, tables,		processor, memory, expansion, characteristics, computer, quantum,	Methodologies, project, Prince2, DMAIC, CPM, Agile,
sb	Software, hardware, input,	Computer system, hardware,	Centralisation	graphs/charts, infographics, validation	Ethical, legal, cultural,	connectivity, hub, switch, modem measurement, binary, decimal,	scrum, principles, financial, risk, acceptance, quality,
Vor	process, output, social	sortware, peripheral,	Decentralisation	methods, proofreading, size of sample, big	environmental, privacy,	nexadecimai	resource, closure, plan, meeting, report, importance,
2	norts devices	cache clock speed fetch-	Chain of command	data, e-continence, printary data, secondary	prombits, licence, on the sher		evaluate, improvement, recommend
Ke		execute cycle	Span of control	groups.			
	Working on coursework	English - report writing bullet	Literacy using key vocabulary and applying to	Working on coursework within school.	Identifying ethical, moral &	Regular work set individually/group work focusing on covered content	Working on coursework within school. During study
¥	within school. Either at	points.	context-based scenarios. Listening and or	Either at lunch/after school. Completing	cultural issues, exploring laws	and adding extra facts to already covered content to develop	periods/afterschool Completing improvements.
ION	lunch/after school.	Maths – conversion, numbers	reading current news stories and analysing the	improvements.	and regulations and assessing	understanding. (Revision)	
me	Completing improvements.		business concepts that apply to this		impact on society & business.		
위							
	User interfaces –	Computer games developer	https://www.unifrog.org/teacher/resources/s	User interfaces – programmer, cyber	Private investigator Head of IT	Network manager. IT support, network engineer, e-learning developer	Network manager. IT support network engineer e-
	programmer, cyber security	computer programmer.	ort/skills-and-enterprise-start-up-challenge	security specialist, computer game designer.	web developer, e-learning	IT teacher	learning developer, IT teacher, project manager.
	specialist, computer game	forensic computer analyst,		web developer, security specialist,	developer		planner, IT support worker
	designer.	software developer, network		computer programmer, software			
	Public needs – MP,	engineer, IT systems architect,		application developer, computer system			
	Councillor,	CNC machinist		engineer			
				Sproadshoot - admin assistant assountant			
, it				spreausneer – aumin assistant, accountant, cost estimator financial analyst sales			
er li rog				manager, teacher. sales/marketing			
arec Jnif				manager, quality surveyor, analyst,			
űЭ				receptionist			

	Aiming high	Aiming high Literacy	Aiming high Literacy	Aiming high	Literacy	Aiming high	Aiming high	Literacy	Aiming high	Literacy
	Literacy	Creativity	Creativity Numeracy	Creativity	Numeracy	Literacy	Creativity	Numeracy	Creativity	Numeracy
	Creativity	Numeracy	Leadership Independence	Leadership	Independence	Creativity	Leadership	Independence	Leadership	Independence
	Numeracy	Leadership	Listening Communication	Listening	Communication	Numeracy	Listening	Communication	Listening	Communication
	Leadership	Independence	Presenting Teamwork	Presenting	Teamwork	Leadership	Presenting	Teamwork	Presenting	Teamwork
ills	Independence	Listening	Problem solving Staying positive	Problem solving	Staying positive	Independence	Problem solving	Staying positive	Problem solving	Staying positive
/ sk	Listening	Communication				Listening	_			
lit,	Communication	Presenting				Communication				
abi	Presenting	Teamwork				Presenting				
ò	Teamwork	Problem solving Staying				Teamwork				
ď	Problem solving	positive				Problem solving Staying				
ш.	Staying positive					positive				
0	The security methods and	Students may have forgotten	Layers of management and areas od	Data analysis, big data	, data, spreadsheets,	Student become mixed up with	Some students com	e to IT from year 11 with no knowledge as we take	Students struggle to	o understand the concepts of
pti	infrastructure required to	some of the roles of the	responsibility, being accountable for ar	d database, formula, op	en questions, closed	ethical, cultural and legal	on students from a	I subject. They require no previous grade from IT to	using a range of pro	pject management techniques to
on	support online services.	different components within a	accountable to.	question, interview, se	ensors, military uses,	issues and relate these to	uptake subject.		compete set task.	
E D		computer system.		benefits,		religious beliefs.				
nis										
<u> </u>										
	End of objective assessments	Word – students will create	Weekly examination questions and fee	dback Students will be comp	leting an entirety of a	Exam questions focused on	Half termly unit cla	ss mock. This will cover content to date to ensure	Coursework assesse	ed on daily basis and marked off
	twice a half term. Working	small written report that	on business concepts	piece of coursework. T	hey will all be	ethical issues. Extended	students have fully	understood tasks given and to ensure all students	on tracker and 'turr	nitinuk' to identify plagiarism
	towards examination	identifies all the content that		working to aim for Dis	tinction level with all	questions will be focused on in	become familiar wi	th command words identified within spec. Questions	across internet and	from within school.
int	criteria.	they have covered to date. Key		the necessary tasks to	be completed. Each	preparation for forthcoming	taken from OCR exa	am builder from previous tests.		
Ĕ		words will be displayed as		student will constantly	be given updated	mocks & exam series.				
ess		prompter. Marks will be		task sheets in which th	ley need to complete					
Ass		awarded for valid references to		to attain next grade.						
4		accurate information.								

Half term 2

	How data and information is	Components of a computer	motivation	Creating and modifying a	Algorithms	Fundamentals of IT	Project management
	used and transferred	system		database			
	1						
	1						
İ	1						
5							
	What data must be fit for	The purpose and	The second state of the state of the second state of the second	create and add tables	Principles of computational	Understand computer software	Understand the project life cycle
	purpose:	characteristics of embedded	Financial methods include an understanding of	 add fields 	thinking		
	,	systems	the main methods of payment including	 create a primary key 	Abstraction	Understand business IT systems	Be able to initiate and plan projects
	Data consists of raw facts	Examples of embedded	salary, wage, commission and profit sharing.	 assign appropriate data types 	Decomposition		
	and figure	systems	Specific motivational theories (such as	 apply effective validation rules and error 	Decomposition	3.1 Types of servers, i.e.:	Be able to execute projects
	Information and data	The needs for primary storage	Maslow) will not be examined	messages	Algorithmic thinking	• file/print	
	processed by the computer	The difference between RAM	Bonofits of a motivated workforce include	 link tables using key fields and 	Identify the inputs, processes,	application	Be able to carry out project evaluations
	Applying rules to data and	and ROM	staff retention and high productivity	relationships	and outputs for a problem	• database	
	information	The purpose of ROM in a	stan retention and high productivity.	 import data from a given CSV file 	Structure diagrams	• web	2.1 Developments, i.e.:
	Speed and access of data	computer system	Non-financial methods of motivation include	 add, edit and delete records 	Create, interpret, correct,	• mail	 body/health, e.g.:
	and storage	The purpose of RAM in a	styles of management, importance of training,	 check and test data to ensure it is error- 	complete, and refine	• hypervisor	o sensors, e.g. wearable thermometer
	File types	computer system	greater responsibility and fringe benefits.	free	algorithms using:	3.2 Virtualisation. i.e.:	o social safety wearables
	Data compression	Virtual memory		 check and test the database to ensure it 	Pseudocode	• server	o Wi-Fi mattress cover
	File properties		Benefits include increased productivity, ability	functions correctly.	Flowcharts	• client	o Bluetooth stethoscope
			to deal with changes in technology, increased	· · · · · · · · · · · · · · · · · · ·	Poforonco languago /high	• storage	o biometric patch
	How data is checked for		motivation, staff retention, production of high	import data from a CSV file and generate	lovel programming language	• cloud	o running analytics
	errors:		quality goods and good customer service.	content of their own	Identify common errors	• hybrid	o Bluetooth weather sensor
	Data capture methods			 enhance layout and format of the 	Trace tables	benefits and limitations	o Bluetooth maps for visually impaired
	Validation and verification			spreadsheet including font	Trace tables	3.3 Networking characteristics, i.e.:	o Bluetooth sunglasses
	Sources of error			style: font size: enhanced grids/borders:		• peer to peer	• home/garden, e.g.:
	Problem solving			titles: colours: merged		• client server (i.e. DNS)	o smart air conditioner
				cells: cell alignment: text wrap: headers or		• bus/star/ring/mesh	o Bluetooth tape measure
	How data transfers over			footers: forms:		• addressing (i.e. default gateway, IP address,	o smart locks
	different types of network			worksheet tab		subnet mask)	o smart lights
				facilitate data entry through use of form		diagrammatical representation	o smart hatteries
	The difference between LAN			controls, e.g., buttons,			o global location devices
	and WAN			check box, dron-down lists, combo boxes			o Bluetooth measurement jars
	Protocols			spinners, scroll bar			o Bluetooth flower pots
	Bus, star and ring			define a print area in order to present a			o wireless water shutoff
	Packet sniffing			customer-friendly output			o Wi-Fi shopping lists
	Emerging technologies			• create a navigation menu in order to			o solar powered window blinds
				customise and simplify the			o Wi-Fi gas and carbon monoxide detectors
	,			client's use of the workbook.			• city/neighbourhood, e.g.:
	,						o real-time air traffic
	1						o smart signage
	,						o bicycle barometer
	1						o city dashboard
	1						o intelligent street lights
							o taxi locator
es							o surveillance systems
cti							o wearable air quality sensor
oje	1						o smart urban furniture
ō	1						
	· · · · · · · · · · · · · · · · · · ·						

	B1, B2, B3	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6	N/A	N/A
NC links (where							
	Tier 2 identify, describe, explain, analyse	<mark>Tier 2 identify, describe,</mark> explain, analyse	Tier 2 State, identify, describe, evaluate, discuss	Tier 2 analyse, evaluate, compare, discuss,	Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array.	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Open source, closed source, bespoke, shareware, productivity software, developmental, utility software, operating systems, communications.	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Methodologies, project, Prince2, DMAIC, CPM, Agile,
Key Words	Extranet, intranet, topology, servers, packet sniffing, operation, protocol.	RAM, ROM, bootstrap loader, volatile, non – volatile, memory, secondary memory, virtual memory, magnetic, optical, solid state	Motivation, human resources, retention, customer service, productivity	macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements	protocols, troubleshooting, servers, virtualisation, networking, peer to peer, client server, MIS, procedures	resource, closure, plan, meeting, report, importance, evaluate, improvement, recommend
Homework	Topic based recall questions and past paper exam questions	Combination of homework activities that focus directly on the gaps in students learning. Recap and consolidate learning from lessons.	Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	Working on coursework within school. Either at lunch/after school. Completing improvements.	Directed learning challenges focusing on coding challenges booklet.	Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)	Working on coursework within school. During study periods/afterschool Completing improvements.
Career link (Unifrog)	User interfaces – programmer, cyber security specialist, computer game designer, web developer, security specialist, computer programmer, software application developer, computer system engineer Public needs – MP, Councillor,	Computer games developer, computer programmer, forensic computer analyst, software developer, network engineer, IT systems architect, CNC machinist	https://www.unifrog.org/teacher/resources/s ort/save-the-planet-week-2022	Maths – spreadsheets, graph work, suitable charts for purposes, Logical THINKING, data types, integers, ratio, coordinates, cell referencing Geography – temperature charts, sea levels and comparisons between countries. English - audience	Photonics engineers, quantitative analyst, software developer, app designer	Network manager, IT support, network engineer, e-learning developer, IT teacher	Network manager, IT support, network engineer, e- learning developer, IT teacher
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStayingpositive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive
Common misconceptio	Students struggle to identify that risks can potentially put a project behind. Risks need to be identified and minimised prior to project beginning.	Students may have forgotten some of the roles of the different components within a computer system.	Different concepts relating to motivation	Incorrectly inserting data into spreadsheet, wrong formula used for purpose, incorrect links between sheets to dashboard.	Students may have previous misconceptions that have been built into their learning from previous years. Ensuring that all students stick to set	Students always struggle with protocols and the different ones. Never been asked before for each protocol within exam paper but preparing for when this happens.	Students struggle to understand the concepts of using a range of project management techniques to compete set task.
Assessment	Homework and in class activities.	Students will create a key facts sheet that will identify all the different types of storage. This will be a large project that will then be used as a display within the classroom. All concept will need covering within working document.	Weekly examination questions and feedback on business concepts	Students will be completing an entirety of a piece of coursework. They will all be working to aim for Distinction level with all the necessary tasks to be completed. Each student will constantly be given updated task sheets in which they need to complete to attain next grade.	Challenge booklet to students. Given set programming challenges on weekly basis. Mock series will also be completed for both Unit 1 & 2.	Half termly unit class mock. This will cover content to date to ensure students have fully understood tasks given and to ensure all students become familiar with command words identified within spec. Questions taken from OCR exam builder from previous tests.	Coursework assessed on daily basis and marked off on tracker and 'turnitinuk' to identify plagiarism across internet and from within school.
				Half ter	m 3		
Unit	Legal, moral, ethical impacts of IT for cybersecurity	Components of a computer system	The elements of the marketing mix: price, product, promotion and place (4Ps)	Create a dashboard using data manipulation tools	Algorithms	Fundamentals of it	Global information

	Legal, moral, ethical impacts of IT for cybersecurity	Components of a computer system	The elements of the marketing mix: price, product, promotion and place (4Ps)	Create a dashboard using data manipulation tools	Algorithms	Fundamentals of it
Unit						

	Risks to information held on	The need for secondary	To understand price skimming and price	To understand how data can be imported	Standards searching	Understand employability and communication skills used in an IT	Understand where information is held globally and
	computers	storage	i o understand price skimming and price	from an external source. They will then	algorithms	environment	how it is transmitted
		Common types of storage	penetration.	explore how to apply data processing	Binany search		
	Accidental damage	Ontical	The second second allow the second allowed a statements	methods. These include:	billary search	4.1 Communication skills, i.e.	Understand the styles classification and the
	Unintended disclosure by	Magnetic	To understand the impact these pricing	data manipulation mothods:	Linear search	• internersenal skills (i.e. ave contact, hedy language)	management of global information
	Unintended disclosure by	Magnetic	decisions will have on the business.	data manipulation methods.	Standard sorting algorithms	• Interpersonal skills (i.e. eye contact, body language)	management of global mormation
	Incorrectly assigned access	Solid state	The second second second with the second sec	Importing data, e.g. from other files, the	Bubble sort	• questioning techniques	
	levels	Suitable storage devices and	To understand competitive pricing, loss leader	internet		 verbal (i.e. meetings, telephone, group discussions) 	Understand the use of global information and the
	Malicious software	storage media of a given	and cost-plus pricing.	formulae, e.g. add, divide, subtract, multiply	Merge sort	 written (i.e. reports, letters, emails, social 	benefits to individuals and organisations
	Physical protection	application		decision-making functions, e.g. IF, WHATIF,	Insertion sort	networking)	
	Biometrics	The advantages/disadvantages	To understand the impact these pricing	SUMIE	The use of variables	• non-verhal (i.e. hody language)	Understand the legal and regulatory framework
	Location of hardware	of different storage devices	decisions will have on the business.	lookun functions og VLOOKUR HLOOKUR		horriors /i.e. language distraction noise lack of	governing the storage and use of global information
	Dealers	of different storage devices		lookup fullctions, e.g. VLOOKOF, HEOOKOF	constants, operators, inputs,	· balliers (i.e. language, distraction, noise, lack of	governing the storage and use of global information
	васк ups	and storage media relating to	To recognise the factors, internal and external,	string operation functions, e.g. LEFT, RIGHT	outputs and assignments	concentration)	
	Security staff	these characteristics	which might influence the pricing decision,	count functions, e.g. COUNTBLANK,	The use of three basic	 appropriate use of language (i.e. formal, informal, technical, non- 	Understand the process flow of information
	Security policies	Capacity	particularly as businesses grow and expand.	COUNTIF	programming constructs used	technical)	
	Staff responsibilities	Speed		logical operators, e.g. NOT, AND, OR	to control the flow of a	4.2 Communication technology, i.e.:	1.1 Holders of information, i.e.:
	Disaster recovery	Portability	To evaluate the factors and use them to assess	sorting, e.g. sorting multiple columns and	nrogram	presentation software	 categories of holders (individual citizens)
	Accentable policy	Durability	the suitability of pricing methods for a given	values	p. 08. d	• word processing	husinesses educational institutions governments
	Acceptable policy	Dalability	business.		Sequence	• word processing	shariting health are say in a start and a second
		Reliability	To understand the basic relationship between	outline, e.g. group, ungroup, subtotal	Selection	• email	charities, healthcare services and community
	Moral and ethical issues	Cost	rounderstand the basic relationship between	filtering, e.g. greater than, less than, equals,	Iteration (Count and	• web	organisations)
	effecting computer use:	The units of date storage	price and demand.	contains, begins with, ends with		blogs/vlogs	 location (e.g. developing country, developed
		Bit	To understand the benefits and risks of	text to columns, e.g. delimited, fixed width.	condition-controlled loops)	 instant messaging 	country, urban, rural, home, workplace)
	Privacy and security	Nibble (4 bits)	developing new products.		The common arithmetic	• use	comparison of technologies available and access
	Cookies and data collection	Byte (8 bits)	To understand the importance of product	Other processing methods:	operators	4.3 Personal attributes (i.e. self-motivation leadership	issues across the global divide (e.g. botwoon
	Monitoring	Kilohyto (1000 hytos == 1 KD)	design, image and the needs of the target	a absolute and relative cell referencing	The common Boolean	rement dependability numericality arealized and the	doveloped and doveloping countries)
		Nicobyle (1000 bytes or 1 KB)	market when designing new products	o absolute and relative cell referencing, e.g.		respect, dependability, punctuality, problem Solving,	developed and developing countries)
	Impact of data loss	Megabyte 1000 KB)	market when designing new products.	use of dollar sign (\$) and named cells	operators AND, OK and NOT	determination, independence, time management, team	1.2 Types of information storage media, i.e.:
	GDPR	Gigabyte (1000 MB)		macros, e.g. for automatic navigation,	To use of data types:	working, written numerical and verbal skills, planning	 paper (e.g. forms, handwritten notes, maps,
	DPA	Terabyte (1000 GB)		change graph options, change data ranges	Integer	and organisation skills)	telephone directories)
	computer misuse Act	Petabyte (1000 TB)		data validation, e.g. list check. type check	Real	4.4 Ready for work, i.e.:	• optical media (e.g. CD and DVD)
	Communications Act	How data needs to be		length check	Boolean	dress (i.e. appropriate clothing depending on	• magnetic media (e.g. magnetic hard drives and
	Degulation of investigatory	now data needs to be		multiple and lipking workshoots o.g. for	Character and string	situation)	tonos)
	Regulation of investigatory	converted into a binary format		multiple and linking worksneets, e.g. for	Costing	situation)	tapes)
	powers	to be processed by a computer.		dashboard and raw data		 presentation (i.e. personal grooming, appearance 	 solid state media (e.g. SSD hard drives, memory
		Data capacity and calculation		cell comments	The use of basic string	etc.)	
		of data capacity requirements.		alternative views, e.g. hiding/unhiding cells,	manipulation the use of basic	 attitude (i.e. can do attitude, responsive) 	2.1 Information styles and their uses, i.e.:
		How to convert positive denary		freezing planes	file handling operations	4.5 Job roles, i.e.:	• text (different character sets, e.g. Western, Cyrillic,
		whole numbers to hinary		conditional formatting e.g. data bars	Open	Network manager	Arabic etc.)
		numbers (up to and including 9		conditional formatting, e.g. data bars,	Read		a graphic (a g lago photograph diagram)
		numbers (up to and including 8		colour scales, icon sets	W/site		• graphic (e.g. logo, photograph, diagram)
		bits) and vice versa			write	Programmer	• video (e.g. instructions on how to carry out a
						· · · · · · · · · · · · · · · · · · ·	video (e.g. instructions of now to carry out a
		How to add two binary integers		To use a dashboard to select and display	Close	Web designer	software update, live broadcast of a music festival)
		How to add two binary integers together (up to and including 8		To use a dashboard to select and display information summaries based on a given	Close	Web designer Animator	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character,
		How to add two binary integers together (up to and including 8 bits) and explain overflow		To use a dashboard to select and display information summaries based on a given large data set	Close The use of records to store	Web designer Animator Key skills required for each	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart)
		How to add two binary integers together (up to and including 8 bits) and explain overflow		To use a dashboard to select and display information summaries based on a given large data set.	Close The use of records to store	Web designer Animator Key skills required for each	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart)
		How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur		To use a dashboard to select and display information summaries based on a given large data set.	Close The use of records to store data The use of SQL to search for	Web designer Animator Key skills required for each	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track)
		How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary		To use a dashboard to select and display information summaries based on a given large data set.	Close The use of records to store data The use of SQL to search for	 Web designer Animator Key skills required for each 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time)
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Jectives		How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts		To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to:	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation	 Web designer Animator Key skills required for each 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public
Objectives		How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts		To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to:	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation	 Web designer Animator Key skills required for each 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public
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Objectives	B1, B2, B3	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts		To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation	 Web designer Animator Key skills required for each 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A
Objectives	B1, B2, B3	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts		To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation	 Web designer Animator Key skills required for each 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A
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NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift. array. overflow	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than. equals to. IF statements	 Web designer Animator Key skills required for each N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Interpersonal, verbal, written, barriers, attributes, certification 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences
NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift, array, overflow, megabute, gizabuto, tacabute	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks	 Web designer Animator Key skills required for each N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Interpersonal, verbal, written, barriers, attributes, certification 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organications management logiclation
ds NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift, array, overflow, megabyte, gigabyte, terabyte, neatedted dwarbility	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indoat acated leare.	 Web designer Animator Key skills required for each N/A N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Interpersonal, verbal, written, barriers, attributes, certification 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organisations, marketing, management, legislation, resultion and the tacter to t
'ords NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift, array, overflow, megabyte, gigabyte, terabyte, petabyte, durability,	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops	 Web designer Animator Key skills required for each N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Interpersonal, verbal, written, barriers, attributes, certification 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
Words NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa • Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift, array, overflow, megabyte, gigabyte, terabyte, petabyte, durability, portability, capacity, reliability	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR,	 Web designer Animator Key skills required for each N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Interpersonal, verbal, written, barriers, attributes, certification 	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
tey Words NC links Objectives (where	B1, B2, B3 Tier 2 identify, describe, explain, analyse Ethical, moral, legislation, privacy, policy, disclosure	 How to add two binary integers together (up to and including 8 bits) and explain overflow errors which may occur How to convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa How to convert binary integers to their hexadecimal equivalents and vice versa Binary shifts A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Binary, decimal, hexadecimal, shift, array, overflow, megabyte, gigabyte, terabyte, petabyte, durability, portability, capacity, reliability	Tier 2 State, identify, describe, evaluate, discuss Benefits, risk, skimming, target audience, influences, expansion.	To use a dashboard to select and display information summaries based on a given large data set. To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation features, to ensure they do not lead to: B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Close The use of records to store data The use of SQL to search for data The use of arrays (or equivalent) when solving problems, including both one- dimensional (1D) and two- dimensional arrays (2D) How to use sub programs (functions and procedures) to produce structured code Random number generation A1, A2, A3, A4, A6 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search,	Web designer Animator Key skills required for each N/A	software update, live broadcast of a music festival) • animated graphic (e.g. pop-up book character, operation of the human heart) • audio (e.g. spoken instructions, music track) • numerical (e.g. profit, date and time) • Braille text (e.g. written report printed on a Braille printer) • tactile images (e.g. NASA's Hubble Space Telescope images converted into tactile images for people who cannot explore the images by sight) • subtitles (e.g. translated speech for a film in a foreign language) • boolean (e.g. yes or no answer on a form) • tables and spreadsheets (e.g. simple database tables and spreadsheets) • charts and graphs (e.g. identifying trends, making comparisons) 2.2 Information classification, i.e.: • sensitive • non-sensitive • private • public • personal N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage

Homework	Homework and in class activities.	Conversion tasks focused between: binary, decimal and hexadecimal. Looking at converting each.	Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	Working on coursework within school. Either at lunch/after school. Completing improvements.	Directed learning challenges focusing on coding challenges booklet.	Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)	Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)
Career link (Unifrog)	Computer games developer, computer programmer, forensic computer analyst, software developer, network engineer, IT systems architect, CNC machinist	Computer games developer, computer programmer, forensic computer analyst, software developer, network engineer, IT systems architect, CNC machinist	https://www.unifrog.org/teacher/resources/s ort/enterprise-and-employability-challenge- session-2	Maths – spreadsheets, graph work, suitable charts for purposes, Logical THINKING, data types, integers, ratio, coordinates, cell referencing Geography – temperature charts, sea levels and comparisons between countries. English - audience	Photonics engineer, quantitative analyst, software developer, app designer, programmer	Network manager, IT support, network engineer, e-learning developer, IT teacher	Network manager, IT support, network engineer, e- learning developer, IT teacher
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive
Common misconceptio	Confusing different legislation, particularly GDPR and DPA.	Students become mixed up with the different sizes of TB, MB, GB, PB		Incorrectly inserting data into spreadsheet, wrong formula used for purpose, incorrect links between sheets to dashboard.	Students may have previous misconceptions that have been built into their learning from previous years. Ensuring that all students stick to set	Struggle to identify why industrial certification is needed for IT posts.	Struggle with use of flowcharts and accuracy. Identifying correct shapes needed.
Assessment	Homework and in class activities. Past exam paper questions assessed against exam board marking criteria.	Multiple conversion questions between different data types. Exam questions taken from OCR exam builder.	Weekly examination questions and feedback on business concepts	Students will be completing an entirety of a piece of coursework. They will all be working to aim for Distinction level with all the necessary tasks to be completed. Each student will constantly be given updated task sheets in which they need to complete to attain next grade.	Challenge booklet to students. Given set programming challenges on weekly basis. Mock series will also be completed for both Unit 1 & 2.	Half termly unit class mock. This will cover content to date to ensure students have fully understood tasks given and to ensure all students become familiar with command words identified within spec. Questions taken from OCR exam builder from previous tests.	General non-focused exam questions. Not related to pre-release. Questions that can be answered individually without any prior supporting evidence needed.
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	The cultural and personal,	Data representation	Product differentiation	Draw conclusions based on the data	Design, testing and IDEs	Fundamentals of IT	Global information

	The cultural and personal, environmental impact of ICT	Data representation	Product differentiation	Draw conclusions based on the data	Design, testing and IDEs	Fundamentals of IT	Global information
nit							
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	Learners will understand:	The use of binary codes to		To draw conclusions on the data set, using	Defensive design	Understand ethical and operational issues and threats to computer	Understand where information is held globally and
		represent characters	To understand the significance of having a USP	their dashboard in order to make	considerations: o	systems	how it is transmitted
	Employment patterns	The term 'character set '	in a competitive market.	recommendations.	Anticipating misuse		
	retraining	The relationship between the	To understand the importance of a good		Authentication	5.1 Ethical issues, i.e.:	Understand the styles, classification and the
	Changes in working practices	number of bits per character in	brand image.	To assess how well they have used the	Input validation	whistle blowing	management of global information
	Teleworking	a character set, and the		presentation feature.	Maintainability:	 disability/gender/sexuality discrimination 	
	Homeworking	number of characters which	To understand the product life cycle.		Use of sub programs	 use of information 	Understand the use of global information and the
	Videoconferencing	can be represented, e.g.:	To be able to domenstrate how the domand		Naming conventions	 codes of practice 	benefits to individuals and organisations
	Effect on transport	ASCII	for a product or convice might change over		Indentation	 staying safe online 	
	Effect in traditional media	Unicode	time		Commenting	• bias	Understand the legal and regulatory framework
	Drones	How an image is represented	time.		_	5.2 Operational issues, i.e.:	governing the storage and use of global information
	Green IT and non-green IT	as a series of pixels,	To understand what is meant by an extension			 security of information 	
	e-waste	represented in binary	strategy.			 health and safety 	Understand the process flow of information
	rare earth element mining	Metadata				 disaster planning and recovery 	3.1 Data versus information, i.e.:
	global production lines	The effects of colour depth and	To evaluate the effectiveness of extension			 organisational policies (i.e. acceptable use policy, 	 data-raw, unorganised facts that needs to be
	the digital divide	resolution on:	strategies and when they would be suitable.			code of conduct, etc.)	processed information-data which is processed,
	social media including	The quality of the image	To understand how and why businesses might			change management	organised and structured into a meaningful context.
	cyberbullying and fake news	The size of the image file	broaden and balance their product partfelie			• scale of change:	3.2 Categories of information used by individuals.
	net neutrality	How sound can be sampled	using the Posten Matrix			o drivers (i.e. change in business practice.	i.e.:
	addiction mental health	and stored in digital form	using the Boston Matrix.			legislation. competition)	 communication (e.g. to send an email to a relation
	emerging technologies	The effect of sample rate.	To be able to identify and explain the four			· · · · · · · · · · · · · · · · · · ·	living overseas)
		duration and bit depth on:	categories of the Boston Box.				• education and training (e.g. by a student to check
		The playback quality	5				their current grades on a hand written feedback
		The size of the sound file					sheet from their teacher)
		The need for compression					• entertainment (e.g. to read a film review in a
		Types of compression					magazine)
		Lossy					• planning (e.g. to use a shared electronic diary to
		Lossless					arrange meeting dates)
		Common prevention methods					• financial (e.g. to use a bank statement to help plan
		Penetration testing					saving for a holiday)
		Anti-malware software					• research (e.g. to look up a recipe online)
		Firewalls					 location dependent (e.g. to search for emergency
							dental care when on boliday)
		Passwords					benefits and limitations
		Encryption					3.3 Categories of information used by organisations
		Physical socurity					i.o.
		Filysical security					.c.
							• Knowledge management and creation (e.g. to
							create an accurate model of key markets)
							• management information systems (with) (e.g. to
							monitor start training in a nospital; the location and
S							contact details of each charity worker in a disaster
tič							area; personnel record of all staff)
jec							• marketing, promotion and sales (e.g. to identify
å l							nottorne or trande in calce figures)
	D4 D2 D2						patterns or trends in sales figures)
				D4 D2 D2		N/A	patterns or trends in sales figures) financial analysis and modelling
	В1, В2, В3	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	patterns or trends in sales figures) financial analysis and modelling N/A
sk el	81, 82, 83	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	patterns or trends in sales figures) • financial analysis and modelling N/A
	B1, B2, B3	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	patterns or trends in sales figures) • financial analysis and modelling N/A
c lir vhei	81, 82, 83	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	patterns or trends in sales figures) • financial analysis and modelling N/A
NC lir (whe	81, 82, 83	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	patterns or trends in sales figures) • financial analysis and modelling N/A
NC lir (whe	B1, B2, B3 Tier 2 identify, describe,	A5, A6, A8, B1 Tier 2 identify, describe,	Tier 2 State, identify, describe, evaluate,	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss,	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss,	patterns or trends in sales figures) • financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate,
NC lir (whe	Tier 2 identify, describe, explain, analyse	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse	Tier 2 State, identify, describe, evaluate, discuss	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns,	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical,	patterns or trends in sales figures) • financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss,
NC lir (whe	Tier 2 identify, describe, explain, analyse	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse	Tier 2 State, identify, describe, evaluate, discuss	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing,	patterns or trends in sales figures) • financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media,
NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality,	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary,	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non-
NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk,	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap,	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences,
NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution,	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation,
NC lit (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
s NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
ords NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
Words NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
ey Words NC lir (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE,	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
Key Words (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
Key Words NC liv (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns Working on coursework	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital Multiple everlearner tasks and	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this Weekly exam questions and scenario-based	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased Working on coursework within school.	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors Programming challenges	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic Regular work set individually/group work focusing on covered content	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage Regular work set individually/group work focusing on
rk Key Words NC li (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns Working on coursework within school. Either at	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital Multiple everlearner tasks and OCR exam builder questions	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this Weekly exam questions and scenario-based comprehension activities.	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased Working on coursework within school. Either at lunch/after school. Completing	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors Programming challenges booklet from OCR. Exam	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage Regular work set individually/group work focusing on covered content and adding extra facts to already
work Key Words NC li (whe	Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns Working on coursework within school. Either at lunch/after school.	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital Multiple everlearner tasks and OCR exam builder questions built around topic.	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this Weekly exam questions and scenario-based comprehension activities.	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased Working on coursework within school. Either at lunch/after school. Completing improvements.	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors Programming challenges booklet from OCR. Exam question taken from OCR exam	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding.
mework Key Words NC lii (whe	B1, B2, B3 Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns Working on coursework within school. Either at lunch/after school. Completing improvements.	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital Multiple everlearner tasks and OCR exam builder questions built around topic.	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this Weekly exam questions and scenario-based comprehension activities.	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased Working on coursework within school. Either at lunch/after school. Completing improvements.	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors Programming challenges booklet from OCR. Exam question taken from OCR exam builder to develop	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)
Homework Key Words NC li (whe	B1, B2, B3 Tier 2 identify, describe, explain, analyse Cyberbullying. Net neutrality, collaboration, hot desk, trends, patterns Working on coursework within school. Either at lunch/after school. Completing improvements.	A5, A6, A8, B1 Tier 2 identify, describe, explain, analyse Units, binary, denary, hexadecimal, overflow, bitmap, vector, pixel, resolution, metadata, analogue, digital Multiple everlearner tasks and OCR exam builder questions built around topic.	Tier 2 State, identify, describe, evaluate, discuss Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this Weekly exam questions and scenario-based comprehension activities.	B1, B2, B3 Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased Working on coursework within school. Either at lunch/after school. Completing improvements.	A1, A2, A3, A4, A6, B2 Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors Programming challenges booklet from OCR. Exam question taken from OCR exam builder to develop understanding.	N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Whistle blowing, discrimination, codes of practice, operational, ethical, threats, physical digital, permissions, biometrics, interception, phishing, legislation, electromagnetic Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)	 patterns or trends in sales figures) financial analysis and modelling N/A Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, nonsensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)

Netv	twork manager, IT	Data entry clerk, data analyst,	https://www.unifrog.org/teacher/resources/s	User interfaces – programmer, cyber	Photonics engineer,	Network manager, IT support, network engineer, e-learning developer,	Network manager, IT support, network engineer, e-
supp	port, network engineer,	clinical data manager, database	ort/women-in-stem	security specialist, computer game designer,	quantitative analyst, software	IT teacher	learning developer, IT teacher
teac	cher	analyst		computer programmer software	programmer		
(Cuci		unuryse		application developer, computer system	programmer		
				engineer			
.				Spreadsheet – admin assistant, accountant,			
linl 8)				cost estimator, financial analyst, sales			
ifro				manager, teacher, sales/marketing			
U Car				manager, quality surveyor, analyst,			
				receptionist			
Aimir	ning high	Aiming high	Aiming high Literacy	Aiming high Literacy	Aiming high	Aiming high Literacy	Aiming high Literacy
Cros	eracy optivity	Creativity	Creativity Numeracy	Creativity Numeracy	Creativity		Creativity Numeracy
Nur	meracy	Numeracy	Listening Communication	Listening	Numeracy	Listening	Listening
Lead	dership	Leadership	Presenting Teamwork	Presenting Teamwork	Leadership	Presenting Teamwork	Presenting Teamwork
.≝ Inde	ependence	Independence	Problem solving Staying positive	Problem solving Staying positive	Independence	Problem solving Staying positive	Problem solving Staying positive
<u>کی</u> Liste	ening	Listening			Listening		
É <mark>Com</mark>	nmunication	Communication			Communication		
କୁ <mark>Pres</mark> /	senting	Presenting			Presenting		
o Tean	amwork	Teamwork			Teamwork .		
E Prob	blem solving	Problem solving			Problem solving Staying		
- Stayı	ying positive	Staying positive	Chudente will find the concert of booten bou		positive Students struggle with some		
that	dents will be unfamiliar	botwoon lossy/lossloss	difficult and how this can affect the	data with other focus	students struggle with some	occasionally get physical and digital security measures mixed up. CCTV	Identifying correct shapes needed
	ect and use data on wide	Detween lossy lossiess	consumers experience	data with other locus.	to complete independently	always all issue.	identifying confect shapes needed.
	le to make judgements		consumers experience.		to complete macpendently.		
b is and	decisions.						
0 5							
Gree	en ICT written	Exam questions taken from	Weekly examination questions and feedback	Students will be completing an entirety of a	Challenge booklet to students.	Half termly unit class mock. This will cover content to date to ensure	Regular assessments using pre-release for upcoming
asses	essment – to assess	OCR exam builder.	on business concepts	piece of coursework. They will all be	Given set programming	students have fully understood tasks given and to ensure all students	exam. Using information needed to answer
desig	signing a long answer			working to aim for Distinction level with all	challenges on weekly basis.	become familiar with command words identified within spec. Questions	forthcoming official exam.
E ques	t evaluative elements on			student will constantly be given undated	completed for both Unit 1 & 2	taken from OCR exam builder from previous tests.	
s the f	exam specification			task sheets in which they need to complete	OCR exam builder questions.		
¥							
	-			to attain next grade.			
				to attain next grade.			

	Unit 2 -ICT in context	Components of a computer systems	The purpose and methods of market research	Draw conclusions based on the data	Design, testing and IDEs	Virtual and augmented reality	Global information
	Coursework unit						
Unit							
Objectives	 2.1.1 Planning and designing a database Analyse requirements to a specified client brief Identify success criteria Identify the different entities within a specified client brief Design and database structure including tables, relationships, forms, queries, reports fields, primary and foreign keys, data types, field properties, validation rules, minimising data redundancy. Justification for field types Justification of validation rules 2.1.2 Creating and adding tables Creating a primary key Assigning correct data types Importing data from a CSV file 	The purpose and functionality of operating systems: User interfaces Memory management and multitasking Peripheral management and drivers User management File management The purpose and functionality of utility software Utility software Utility system software Encryption software Defragmentation Data compression Types of network: LAN (Local area network) WAN (Wide area network) Factors that affect the performance of networks The different roles of computers in a client-server and peer-to-peer network The hardware needed to connect standalone computers into a local area network Wireless access point Routers Switches	Reasons for conducting market research include to identify market opportunities and to get a better insight into their customers and competitors. Market research collects information about demand, competition and the target market Methods include questionnaires, surveys, interviews and focus groups. To be able to interpret and use qualitative and quantitative market research findings to help make appropriate decisions for different types of business. Exam preparation and practice	To draw conclusions on the data set, using their dashboard in order to make recommendations. To assess how well they have used the presentation feature.	The purpose of testing Types of testing: Iterative Final/terminal Identify syntax and logic errors Selecting and using suitable test data: Normal Boundary Invalid/Erroneous Refining algorithms Simple logic diagrams using the operators AND, OR and NOT Truth tables Combining Boolean operators using AND, OR and NOT Applying logical operators in truth tables to solve problems	Understand virtual and augmented reality and how they may be used Be able to design virtual and augmented reality resource Be able to predict future applications for virtual and augmented reality.	Understand where information is held globally and how it is transmitted Understand the styles, classification and the management of global information Understand the use of global information and the benefits to individuals and organisations Understand the legal and regulatory framework governing the storage and use of global information Understand the process flow of information

	B1, B2, B3	A5, A6, A8, B1		B1, B2, B3	A1, A2, A3, A4, A6, B2	N/A	N/A
NC links (where							
Key Words	Tier 2 identify, describe, explain, analyse Importing, formulae, sorting, filtering, macros, relative cell referencing, conditional formatting, budget allocation, dropdown menus.	Tier 2 identify, describe, explain, analyse Software, system software, OS, utility software, defragmentation, network, topology, cloud, DNS	Tier 2 State, identify, describe, evaluate, discuss Supply, demand, recruitment, selection, retention	Tier 2 analyse, evaluate, compare, discuss, Pivot tables, trends, patterns, misinterpreted, recommendations, biased	Tier 2 analyse, evaluate, compare, discuss, Input, output, variable, array, integer, data, greater than, less than, equals to, IF statements, strings quotation marks, indent, nested, loops statements, Boolean, AND, OR, NOT, SQL injection, search, storing, functions, procedures, sub programs, testing, IDE, errors	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Virtual, augmented, repurposed, proposed, architecture, simulations, training, software, hardware, quality, financial, resource, budget, trigger, develop, testing, evaluate, deviate	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss, Location, developing, optical, solid state media, shared devices, WWW, graphic, sensitive, non- sensitive, manipulating, consequences, organisations, marketing, management, legislation, regulation, protection, data types, espionage
Homework	Working on coursework within school. Either at lunch/after school. Completing improvements.	The everlearner tasks – set online All focused towards current topic – watch video, make notes, question paper	Literacy using key vocabulary and applying to context-based scenarios. Listening and or reading current news stories and analysing the business concepts that apply to this	Working on coursework within school. Either at lunch/after school. Completing improvements.	Programming challenges booklet from OCR. Exam question taken from OCR exam builder to develop understanding.	Working on coursework within school. During study periods/afterschool Completing improvements.	Regular work set individually/group work focusing on covered content and adding extra facts to already covered content to develop understanding. (Revision)
Career link (Unifrog)	Maths – spreadsheets, graph work, suitable charts for purposes, Logical THINKING, data types, integers, ratio, coordinates, cell referencing Geography – temperature charts, sea levels and comparisons between countries. English - audience	Computer games developer, network engineer, electricity distribution worker, IT systems architect, IT project manager, Head of IT	https://www.unifrog.org/teacher/resources/s ort/your-superhero-cv	User interfaces – programmer, cyber security specialist, computer game designer, web developer, security specialist, computer programmer, software application developer, computer system engineer Spreadsheet – admin assistant, accountant, cost estimator, financial analyst, sales manager, teacher, sales/marketing manager, quality surveyor, analyst, receptionist	Photonics engineer, quantitative analyst, software developer, app designer, programmer	Computer game designer, computer game tester, VR headset designer, AR software developer, IT teacher	Network manager, IT support, network engineer, e- learning developer, IT teacher
Employability skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive
Common misconceptio	Lack of previous experience of using databases to edit data.	Students are unfamiliar with concept and technical vocabulary gaps in learning from others units covered to date.	Pricing methods and reasoning	Not able to draw conclusions or cross relate data with other focus.	Students struggle with some programming and being abke to complete independently.	Students usually struggle with the designing and creation of the AR resource, considering a range of newly developed skills. Struggle to identify 'repurposing'	Struggle with use of flowcharts and accuracy. Identifying correct shapes needed.
Assessment	Students will be completing an entirety of a piece of coursework. They will all be working to aim for Distinction level with all the necessary tasks to be completed. Each student will constantly be given updated task sheets in which they need to complete to attain next grade.	Exam questions taken from OCR exam builder.	Examination questions MCQ and key vocabulary used in the correct context will be assessed weekly	Students will be completing an entirety of a piece of coursework. They will all be working to aim for Distinction level with all the necessary tasks to be completed. Each student will constantly be given updated task sheets in which they need to complete to attain next grade.	Challenge booklet to students. Given set programming challenges on weekly basis. Mock series will also be completed for both Unit 1 & 2. OCR exam builder questions.	Coursework assessed on daily basis and marked off on tracker and 'turnitinuk' to identify plagiarism across internet and from within school.	Regular assessments using pre-release for upcoming exam. Using information needed to answer forthcoming official exam. Along with standalone questions not related to pre-release too.
				Half ter	m 6		
Unit	Interrogating a database	Networks			Design, testing and IDEs	Virtual and augmented reality	

	Creating and selecting	Modes of connection:		Characteristics and purpose	Understand virtual and augmented reality and how they may be used	
	queries, suing a query	Wired		of different levels of	Polable to decign virtual and augmented reality recourses	
	table/criteria: multiple	Ethernet			be able to design virtual and augmented reality resources	
	tables/ criteria: wildcard,	Wireless			Be able to create a virtual or augmented reality resource	
	parameter and calculations.	Wi-Fi		The nurnose of translators		
		Bluetooth		The characteristics of a	Be able to predict future applications for virtual and augmented reality.	
	Produce reports from	Encryption		compiler and an interpreter		
	queries, with at least one	IP addressing and MAC		Common tools and facilities		
	customisation for fitness of	Standards		available in an Integrated		
	purpose.	Common protocol		Development Environment		
		The concept of layers		(IDE). Editors		
		Forms of attacks		Error diagnostics		
		Malware		Run-time environment		
		phishing, people as the 'weak		Translators		
		point'				
		Brute force attacks				
		Denial of service attacks				
		Data interception and theft				
		Common prevention methods:				
		Penetration testing				
		Anti-malware software				
S		Firewalls				
tive		User access levels				
bjec		Encryption				
ō		Physical security				
	B1, B2, B3	A1,A2, A4, A5		A1, A2, A3, A4, A6	N/A	
nks ere						
whe						
23						
	Tier 2 identify, describe,	Tier 2 identify, describe,		Tier 2 analyse, evaluate,	Tier 2 State, identify, describe, analyse, evaluate, compare, discuss,	
	explain, analyse	explain, analyse		Compare, discuss, ASCII, translator, compiler	virtual, augmented, repurposed, proposed, architecture, simulations,	
10						
ğ	Query, report, criteria, error,	Network, topology, hardware,		interpreter, integrated	develop, testing, evaluate, deviate	
Word	Query, report, criteria, error, outputs, wildcard, parameter	Network, topology, hardware, encryption, brute force attack,		interpreter, integrated development environment,	develop, testing, evaluate, deviate	
ƙey Words	Query, report, criteria, error, outputs, wildcard, parameter	Network, topology, hardware, encryption, brute force attack, penetration testing, layers,		interpreter, integrated development environment, GUI, debugging, breakpoints	develop, testing, evaluate, deviate	
Key Words	Query, report, criteria, error, outputs, wildcard, parameter	Network, topology, hardware, encryption, brute force attack, penetration testing, layers, Bluetooth		interpreter, integrated development environment, GUI, debugging, breakpoints	develop, testing, evaluate, deviate	
k Key Words	Query, report, criteria, error, outputs, wildcard, parameter Working on coursework within school. Either at	Network, topology, hardware, encryption, brute force attack, penetration testing, layers, Bluetooth The everlearner tasks – set online		interpreter, integrated development environment, GUI, debugging, breakpoints Programming challenges booklet from OCR. Exam	develop, testing, evaluate, deviate Working on coursework within school. During study periods/afterschool Completing improvements.	
vork Key Words	Query, report, criteria, error, outputs, wildcard, parameter Working on coursework within school. Either at lunch/after school.	Network, topology, hardware, encryption, brute force attack, penetration testing, layers, Bluetooth The everlearner tasks – set online All focused towards current		interpreter, integrated development environment, GUI, debugging, breakpoints Programming challenges booklet from OCR. Exam question taken from OCR exam	develop, testing, evaluate, deviate Working on coursework within school. During study periods/afterschool Completing improvements.	
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Students will be completing	Exam questions taken from	OCR exam builder questions.	Coursework assessed on daily basis and marked off on tracker and	
an entirety of a piece of	OCR exam builder.	Past exam papers	'turnitinuk' to identify plagiarism across internet and from within school.	
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working to aim for				
Distinction level with all the				
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