

Curriculum Mapping: Computer Science Year 10 - 11

Year	Autumn 1.1	Autumn 1.2	Autumn 1.3	Autumn 1.4	Spring 1.1	Spring 1.2	Summer 1	Summer 2
	Control systems with flowol	Introduction to python	Fundamentals of algorithms	Fundamentals of data representation 1	Python next steps	Computer systems part 1	Relational databases and SQL	AQA Coding projects
	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts Tier 3 vocabulary	Concepts Tier 3 vocabulary	
Year 10	Algorithm, flowchart, flowchart symbol, start, stop, output, input, process, delay, arrow, control system, infinite loop, sensors, light dependent resistor (LDR), light sensor, push button, temperature sensor, passive infra-red detector (PIR), smart home, subroutine, actuator, variable.	Sequence, interactive mode, input, print, variables, error messages, variable names, comments, type conversion, data types, assignment, round function, calculations, order of precedence, BIDMAS, IF, ELIF, ELSE, IF, comparison operators, code indentation, pseudocode, syntax errors, run- time errors, logic errors, WHILE loop, random number function, linear search, algorithm efficiency,	Algorithm, decomposition, sub-problems, abstraction, pseudo-code, program code, flowchart, inputs, processing, outputs, trace tables, algorithm efficiency, linear search, binary search, merge sort, bubble sort.	Decimal, binary, hexadecimal, binary, data, instructions, bit, byte, kilo, mega, giga, tera, binary shift, 7-bit ASCII, Unicode, character code, pixel, image size, colour depth, bitmap, analogue, sampling rate, sample resolution, hertz.	Data types, integer, float/floating point number, string, IF-ELIF- ELSE, WHILE, FOR, iteration, list, append, element, item, procedures, parameters, functions, return value, call function, call procedure.	Hardware, software, Boolean logic, truth tables, NOT, AND, OR, XOR, system software, application software, operating system,, processor, memory, input/output assembler, Von Neumann architecture, central processing unit (CPU), Von Neumann architecture, arithmetic logic unit (ALU), control unit, clock, register, bus, clock speed, processor cores, cache, fetch-execute cycle, fetch, decode, execute, random access memory (RAM), read only memory (ROM)	Database, flat-file database, CSV, relational database, table, record, field, primary key, foreign key, inconsistency, redundancy, SQL, SELECT, FROM, WHERE, ORDER BY, ASC, DESC, INSERT INTO, VALUES, UPDATE SET, DELETE FROM, data type, text, varchar, char, integer, real, float, decimal, time, date, datetime.	



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	This is a practical	This unit is an	The unif begins	The conversion	This unit builds	Students begin by	The unit begins by	Programming is a
	unit covering the	introduction to	by covering	of integers from	on introduction	looking at Boolean	covering the concept	tundamental skill
	principles of	Python. The focus	decomposition	decimal to	to Python and	logic, moving on	of a database before	required for
	producing	is on getting pupils	and abstraction.	binary is covered	the first lesson	to software	extending this into	success in GCSE
	control and	to understand the	Further lessons in	in the first lesson,	has a series of	classification	relational databases	Computer
	monitoring	process of	the unit cover	together with the	tasks designed	including the	and associated	Science. These
	solutions using a	developing	algorithms,	binary addition	to revisit the	function of the	terminology.	programming
	flowchart-based	programs, the	flowcharts and	of up to three	basic skills	Operating System.	Inconsistency and	challenges are
	interface. Pupils	importance of	pseudo-code,	numbers and	already	Lessons continue	redundancy are	designed to
	will start by	writing correct	before looking at	binary shifts. In	covered. Pupils	to cover systems	covered before	develop
	producing	syntax, being able	specific	subsequent	then use FOR	architecture and	looking at Structure	students'
	systems that use	to formulate	algorithms for	lessons, the use	loops and	factors affecting	Query Language	programming
	simple loops and	algorithms for	sorting and	of hexadecimal	compare their	performance. The	(SQL). SQL is used to	skills.
	basic outputs,	simple programs	searching,	numbers and	use with WHILE	many forms of	write and interpret	
	and then move	and debugging	including the	character	loops, before	memory available	simple queries and to	
	on to look at	their programs. The	bubble and	encoding is	moving on to	in modern	insert, update or	
	systems that	pupils' final	merge sorts. A	described.	Python lists,	computers	delete data from a	
	have multiple	programs are put	final lesson	Representation	which are	including RAM,	database table.	
	inputs, outputs	into a learning	covers the	of images and	introduced as	ROM and cache	Activities to develop	
	and decisions.	portfolio with	efficiency of	sound are	a new data	are also covered	and consolidate	
	Towards the end	evidence of	algorithms,	covered in two	structure and	along with	understanding of	
	of the unit, pupils	correct running, for	comparing the	separate lessons	are used in	secondary storage	each concept are	
	will make use of	assessment	processing time		conjunction	devices and their	provided.	
	more complex	purposes.	and results of		with FOR loops.	uses		
	flowcharts that		different		Functions with			
	incorporate		algorithms on		and without			
	variables and		the same data		parameters			
	actuators.		sets		are covered to			
	Subroutines will				help pupils			
	be used to help				understand the			
	develop modular				concept and			
	programs.				benefits of			
					modular			
					programming.			
Γ	Assessment:							
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	All units have an er	id-oi-unii tesi, which d	raws logerner skills a	na knowledge irom	The previous lessor	15		
	Wider reading/Cult	ural capital						
	Throughout KSA the	re are opportunities fo	r students to access	varied curriculum th	at is ambitious and	apes beyond the		
	specification From	the onset we focus or	ensuring that our st	udents are aware of	the ethical lead	environmental and		
	cultural issues relate	ed to computer science	e. Students are real	larly reminded how	to be respectful di	aital citizens. A solid		
	understanding of h	ow technoloav works	from the inside out a	nd how it affects the	e real world is vital	for students to be		
	able to succeed. S	tudents in year 10 atte	nd lectures at TNMC	C and the centre of	computina history	·.		
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	Autumn 1.1	Autumn 1.2	Autumn 1.3	Spring 1	Spring 2	Summer 1.1	Summer 1.1	
	Practical programming skills in python	Fundamentals of data representation 2	Computer systems part 2	Fundamentals of computer networks	Cyber security	Impacts of digital technology	Revision	
	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	Concepts/Tier 3 vocabulary	
Year 11	Variable, string, syntax, assignment statement, data type, integer, float, round, BIDMAS, selection, iteration, regular expression, list, two-dimensional list, text file, syntax error, logic error, debug, procedure, function, call, argument, parameter.	Decimal, binary, hexadecimal, binary, data, instructions, bit, byte, kilo, mega, giga, tera, binary shift, 7-bit ASCII, Unicode, character code, pixel, image size, colour depth, bitmap, analogue, sampling rate, sample resolution, hertz, data compression, decompress, Huffman tree, run length encoding (RLE), frequency/data pairs.	Students recap looking at Boolean logic, moving on to software classification including the function of the Operating System in further detail. Lessons continue to cover systems architecture and factors affecting performance. The many forms of memory available in modern computers including RAM, ROM and cache are also covered along with secondary storage devices and their uses.	Network, personal area network, PAN, local area network, , Internet topology, protocol, Ethernet, Wi-Fi, TCP, UDP, User Datagram Protocol, IP, Protocol, IP, Protocol, IP, Protocol, HTTP, Hypertext Transfer Protocol Secure, FTP, File Transfer Protocol Secure, FTP, File Transfer Protocol, SMTP, Simple Mail Transfer Protocol, IMAP, Protocol, Wi-Fi, authentication, encryption, firewall, MAC address filtering, MAC address.	Cyber security, social engineering, , malware, pharming, default password, misconfigured access rights, removable media, unpatched software, outdated software, cyber attack, fake website, white-box penetration test, black-box penetration test, social engineering, blagging, pretexting, phishing, shouldering, virus, trojan, spyware.	Ethical, cultural, environmental, legislation, manufacture, disposal, upgrade, replace, e-waste, privacy, legal, data protection, computer misuse, copyright, copyright designs and patents act, wireless networking, wearable technologies, cloud technologies, computer-based implants, autonomous vehicles.		
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	Students to have recap on, all the previous areas covered in year 10. Programming	The conversion of integers from decimal to binary is covered in the first lesson,	Students recap by looking at Boolean logic, moving on to software	. The lessons begin by comparing wired and wireless networks,	This unit begins by examining the threats to, and vulnerabilities	Different computer technologies and applications and the ethical, environmental and		

Hechniques are taught such as validating data entry, creating a menu system with separate and creating a dimension lists. together with the including the bases subsequent continue to cover systems absequent cover systems absequent cover systems absequent cover systems with separate and creating absolute cover systems described. legal considerations aurounding them are described. Immension lists. measure subsequent cover systems described. System cover systems absolute range cover systems described. social recover systems are described. legal cover systems are described. Immension lists. measure subsequent cover systems with a final lesson cover systems including RAM, is separate lessons with a final lesson cover system including RAM, is separate lesson and their uss. legal including in							1		
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vidiading data entry, creating a menu system with segurate unctions and 2- dimension list. up to three binary shifts, in binary shifts, in binar	taught such as	binary addition of	including the	LANs, WANs and	computers and	considerations			
entry, creating of menu system with separate with separate unctions and 2- dimensional list. in numbers and subsequent subsequent subsequent confinue to access system orchifecture and numbers and numbers and numbers and numbers and numbers and numb	validating data	up to three	function of the	network	programs	surrounding them			
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with separate functions and 2- dimensional lists. subsequent sesons, the use of hexadecimal numbers and character encoding is described. continue to coversystems architecture and factors affecting performance. issons covera encylication networking and factors affecting performance. sesons covera encylication networking and factors affecting performance. sesons covera encylication networking and architecture and performance. sesons covera encylication performance. sesons covera encylication architecture and performance. virtual performance incoding is described. The many forms of memory are covered in two separate lesson compersion The many forms of memory are also covered along RAM, revers. One topic also looks at network security secondary socrapted lesson covering lossy compression and their uses. ROM and cache also looks at network security encyption and MAC address filtering. on the also looks at network security including encyption and MAC address filtering. prevention of covering lossy compression and their uses. Xssessment: Al units have an end-of-unit test, which draws together skills and knowledge from the previous lessons the previous lessons Wider reading/Cultural capital specification. From the onset we focus on ensuing that our students are avare of the ethical, legal, environmental, and cultural issues related to computer science. Students are required remarked on on with diffect the red word is sitel for students to be able to succeed. Students in year 10 attend lectures at TINMOC and the centre of computing history.	menu system	binary shifts. In	System. Lessons	Subsequent	concept of				
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