DEPARTMENT:

Computer Science

Voor	Torm 1		Torm 2		Torm 2		Torm 4		Torm F	
rear	ierm 1		Term 2		Term 3		Term 4		Term 5	
	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?
	Understand what e-Safety is and how we need to be	Develop understanding of the danger	s Learn to program using a visual programming language	This will provide a foundation of	Tile based programming language from basics to competent	To show how programming concepts	Learn to program using a textual programming language	This will provide a platform to	Learn to use data in numerical format to create	To allow
	responsible when using the internet. Learn about Health &	of the internet and legal	from basics to competent programmers. Computational	programming knowledge before	programmers. Creating and controlling sprites to allow them to	can be used in an environment and	from basics to competent programmers. Computational	progress into the Python	spreadsheets. Produce graphs to present data breakdown	n. spreadsh
	Safety in the workplace.	requirements that every student	Thinking (think like a computer), algorithms and	textual programming is introduced.	be placed within a created world environment that includes	what the effects could be on that	Thinking (think like a computer), algorithms and	programming language studied at	Create formulaes to make spreadsheets automatically	be used in
		should be aware of.	programming techniques.		different types of terrain.	environment.	programming techniques.	GCSE level.	calculate updates.	
-	Group Differentiation	links to sproors	Crown Differentiation	Links to spreaks	Group Differentiation	Links to sproors	Crown Differentiation	Links to sprops	Crown Differentiation	Linkston
9		Teachers Police & Health & Safety		Links to careers		Brogram Developers Software		Links to careers		Toachors
	Initial differentiation to ascertain quality of knowledge	officers in the work place	Initial differentiation to ascertain quality of knowledge	Software Engineers and Games	Initial differentiation to ascertain quality of knowledge	Engineers and Games Design and	Initial differentiation to accertain quality of knowledge	Software Engineers and Games	Initial differentiation to ascertain quality of knowledge	Denartm
	initial and enclosed as a secretaril quarty of knowledge.	oncers in the workplace.	initial anerentiation to ascertain quanty or knowledge.	Design and Development.	initial anticientation to ascertain quanty of knowledge.	Development.	initial anerentiation to ascertain quarty or knowledge.	Design and Development.	initial amerentiation to ascertain quanty or knowledge.	Deparent
	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numerac
	Using word to gather information on personal data,	Looking at percentages with national	Using programming language to solve simple to	Ensuring you have used the correct	Using programming language to sequence a characters	Ensuring you have used the correct	Using programming language to solve simple to	Ensuring you have used the correct	Understanding bodmas and interpreting formuales.	Using cale
	privacy settings and the law surrounding e-safety.	data in regards to e-safety.	intermediate problems. To develop sequencing	syntax symbols and notation for	movement and to interact with objects. To develop sequencing	syntax symbols and notation for	intermediate problems. To develop sequencing	syntax symbols and notation for		bodmas a
			vocabulary.	programs to work as expected.	vocabulary and instructional language.	programs to work as expected.	vocabulary.	programs to work as expected.		equations
				<u> </u>		μ				<u> </u>
	SMSC	orting the low understanding	SMSC	uses shallonged to work in groups to	SMSC	shallonged to work in groups to find	SMSC	are shallonged to work in groups to	SMSC	and ownlore
	Recognising the difference between right and wrong; resp	ecting the law; understanding	As students develop their skills in a range of software they find solutions whilst developing respect for the ideas and a	are challenged to work in groups to	As students develop their skills in a range of software they are con-	nallenged to work in groups to find	As students develop their skills in a range of software the	are challenged to work in groups to	Computational tranking encourages students to develop an	nd explore
	reasoned views. Care and use of equipment: Making clear	the guidelines about the ethical use of	narticularly prevalent in the design phase of the task	philons of others in their team, this is	prevalent in the design phase of the task	others in their team, this is particularly	narticularly prevalent in the design phase of the task	prinons of others in their team, this is	programming links between subjects for instance maths	skills and to
	the internet and how we keep ourselves and others safe a	g discussing the moral and social	particularly prevalent in the design phase of the task.		prevalent in the design phase of the task.		particularly prevalent in the design phase of the task.		programming mixs between subjects for instance matris.	
	implications of cyber-bullying. This also include the danger	s around sexting and sexual	Pupils may use paired programming to assist in the develo	oment of programming skills and to	Pupils may use paired programming to assist in the development	t of programming skills and to	Pupils may use paired programming to assist in the develo	pment of programming skills and to		
	exploitation.		communicate ideas to each other in a respectful and suppo	rtive manner.	communicate ideas to each other in a respectful and supportive r	manner.	communicate ideas to each other in a respectful and suppo	rtive manner.		
	Topics: Systems Architecture		Topics: Memory and Storage		Topics: Computer networks, connections & protocols		Topics: Network Security		Topics: System Software	
	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?
	Understand the architecture of the CPU, CPU performance	To understand how a computer	Understand primary memory storage, secondary storage,	To understand how data is stored and	Understand networks and topologies, wired and wireless	Build a bigger picture of how	Understand threats to computer systems and networks,	To gain knowledge of how computers	Understand operating systems and utility systems.	To visuali
	and embedded systems.	processes data and at what speed the	units of data, data storage and compression.	how large the storage capacities need	networks, protocols and layers.	computers communicate across	identifying and preventing vulnerabilities.	can be compromised & be aware of		its role to
		CPU is able to process the data.		to be, to handle different file sizes.		networks and world-wide.		prevention methods that can be put		aware of
								into place.		utility sol
10	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to c
	D1, D2, D3, D4, D5 + D6	Teachers, Program Developers,	D1, D2, D3, D4, D5 + D6	Teachers, Program Developers,	D1, D2, D3, D4, D5 + D6	Teachers, Program Developers,	D1, D2, D3, D4, D5 + D6	Teachers, Program Developers,	D1, D2, D3, D4, D5 + D6	Teachers
	Topics covered - now stretching and embeddeding	Software Engineers, Computer	Topics covered - now stretching and embeddeding	Software Engineers, Computer	Topics covered - now stretching and embeddeding knowledge.	Software Engineers, Computer	Topics covered - now stretching and embeddeding	Software Engineers, Computer	Topics covered - now stretching and embeddeding	Software
	knowledge.	Technicians.	knowledge.	Technicians.		Technicians.	knowledge.	Technicians.	knowledge.	Technicia
	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numeracy	Reading & Extended Writing	Numerac
	Accurately describing the purpose of different registers	CPU speeds, size, cores and processing	Accurately describing the purpose of memory and why	Capacity of storage devices and file	Accurately describing how computer networks function and the	Network and connection speeds.	Explaining how network security can be an issue and what	User access levels, passwords and	Analysing the purpose of an operating system and what	Defragme
	and how the CPU operates.	capabilities.	certain storage devices are used.	sizes. Binary, Denary & Hex.	purpose of using protocols.	/	can be done to prevent this.	encryption.	features are available within these systems.	compress
	SMSC	•	SMSC		SMSC		SMSC		SMSC	-
	The way that computer science technologies shaped the w	ay that many people live their lives	The way that computer science technologies shaped the w	ay that many people live their lives	Exploring beliefs and experiences; respecting faiths, feelings and	values; enjoying learning about	Exploring beliefs and experiences; respecting faiths, feeling	s and values; enjoying learning about	Students explore binary digits and how these operate digit	ital devices
	and the concept of total digital reliance in the first world i	s	and the concept of total digital reliance in the first world is	\$	yourself, others and the surrounding world; using your imaginati	ion and creativity. The wonder of	yourself, others and the surrounding world; using your ima	gination and creativity. The wonder of	shown how ASCII keyboards are different to Unicode and y	why other
	explored in depth to assess the importance of key technological	ogies and the roles that they play.	explored in depth to assess the importance of key technological	gies and the roles that they play.	technology: Students look at how technology can bring rapid ber	nefits to discussions and tolerance to an	technology: Students look at how technology can bring ray	id benefits to discussions and tolerance	characters on their keyboard compared to others.	
	Digital youth culture is also explored in detail, identifying	how a student would identify their	Digital youth culture is also explored in detail, identifying	how a student would identify their	individual's beliefs. However, students are also exposed to the lin	mitations and abuse of the internet	to an individual's beliefs. However, students are also expo	sed to the limitations and abuse of the		
	"digital self" and how many young people are able to find	a sense of belonging within the online	"digital self" and how many young people are able to find a	sense of belonging within the online	where they question and justify the aims, values and principles of	of their own and others' belief systems.	internet where they question and justify the aims, values	and principles of their own and others'		
	world that they may struggle elsewhere.		world that they may struggle elsewhere.				belief systems.			
	Topics: Algorithms & Programming Fundamentals		Topics: Producing Robust Programs & Boolean Logic		Topics: Programming Languages & Integrated Development Envir	ronments	Topics: Flowcharts & Pseudocode		Topics: Review Paper 1 & 2 Content & Exam Preparation In	ncluding Re
	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?	Knowledge & Skills:	Why?
	Understand computational thinking, designing, creating	Develop understanding of coding	Understand defensive design, testing and boolean logic.	To learn how to create and test	Understand high-level and low-level languages, translators,	To be able to distinguish between	Understand how flowcharts are used and process	To design flowcharts that provide	Various - fill in gaps in knowledge, address misconceptions	s Preparati
	and refining algorithms, searching and sorting algorithms,	constructs. Develop Computational		programs that handle user input	compilers, and IDEs.	different programming languages and	information. To learn Pseudocode to allow our programs	algorithm solutions. To create	and revisit topics highlighted to be difficult.	
	programming fundamentals, data types and additional	Thinking skills required to solve		errors. To learn how to use boolean		how they process the code within	to be coded in different program languages.	Pseudocode that developers can use		
	programming techniques.	algorithms.		logic within programs.		these languages.		to create programs in a range of		
4.4								languages.		
TT	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to careers	Group Differentiation	Links to c
	D1, D3, D4 + D6	Teachers, Program Developers,	D1, D3, D4 + D6	Teachers, Program Developers,	D1, D3, D4 + D6	Teachers, Program Developers,	D1, D3, D4 + D6	Teachers, Program Developers,	D1, D3, D4 + D6	Teachers
	Topics covered - now stretching and embeddeding		Textes severely a supervised by a set of the several sector data data at the	Software Engineers, Computer	Topics covered - now stretching and embeddeding knowledge.	Colores Fastances Consider			Lots of small group intervention.	
	knowledge	Software Engineers, Computer	Topics covered - now stretching and embeddeding			Software Engineers, Computer	Topics covered - now stretching and embeddeding	Software Engineers, Computer		Software
	Reading & Extended Writing	Software Engineers, Computer	knowledge	Technicians		Technicians	Topics covered - now stretching and embeddeding	Software Engineers, Computer		Software
	Using algorithms combined with an environment	Software Engineers, Computer Technicians Numeracy	Reading & Extended Writing	Technicians Numeracy	Reading & Extended Writing	Software Engineers, Computer Technicians Numeracy Publics errors	Topics covered - now stretching and embeddeding knowledge Reading & Extended Writing	Software Engineers, Computer Technicians Numeracy	Reading & Extended Writing	Software Technicia Numerac
	Using algorithms combined with programming fundamentals to solve intermediate problems. To develop	Software Engineers, Computer Technicians Numeracy Trace tables, search and sort algorithms AND OP and NOT	Reading & Extended Writing Using conditional statements as part of an instruction. Writing robust programs to provide input access	Technicians Numeracy Logic errors, trace tables and boolean operators	Reading & Extended Writing Using a programming language to solve intermediate problems. To develop sequencing worshulary	Software Engineers, computer Technicians Numeracy Run-time errors.	Topics covered - now stretching and embeddeding knowledge. Reading & Extended Writing To use pseudocode to represent programs to allow morgrammers to code the program in different isonance.	Software Engineers, Computer Technicians Numeracy Pseudocode.	Reading & Extended Writing All previous reading & extended writing content.	Software Technicia Numerac All previo
	Using algorithms combined with programming fundamentals to solve intermediate problems. To develop sequencing vocabulary.	Software Engineers, Computer Technicians Numeracy Trace tables, search and sort algorithms, AND, OR and NOT.	ropics covered - now stretching and embeddeding ropulates Reading & Extended Writing Using conditional statements as part of an instruction. Writing robust programs to prevent input errors.	Terbnicians Numeracy Logic errors, trace tables and boolean operators.	Reading & Extended Writing Using a programming language to solve intermediate problems. To develop sequencing vocabulary.	Software Engineers, Computer Terholicias Numeracy Run-time errors.	Topics covered - now stretching and embeddeding knowledge Reading & ktended Writing To use pseudocode to represent programs to allow programmers to code the program in different languages.	Software Engineers, Computer Technicians Numeracy Pseudocode.	Reading & Extended Writing All previous reading & extended writing content.	Software Technicia Numerac All previo
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	Using algorithms combined with programming fundamentals to solve intermediate problems. To develop sequencine vorabulary. SMSC Within the learning environment students are encouraged developing key practical skills, to share research findings a	Software Engineers, Computer Tacholicians. Numeracy Trace tables, search and sort algorithms, AND, OR and NOT. to work collaboratively whilst ind to peer assess each other's work to	ropics covered - now stretching and embeddeding Reading & Extended Writing Using conditional statements as part of an instruction. Writing robust programs to prevent input errors. SMSC Writin the learning environment students are encouraged developing key practical skills, to share research findings a	Techniciane Numeracy Logic errors, trace tables and boolean operators. to work collaboratively whilst nd to peer assess each other's work to	Reading 8. Extended Writing Using a programming language to solve intermediate problems. To develop sequencing vocabulary. SMSC Within the learning environment students are encouraged to wo key practical skills, to share research findings and to peer assess	Software Engineers, Computer Tachoirans Numeracy Run-time errors. rk collaboratively whilst developing each other's work to highlight	Topics covered - now stretching and embeddeding knowlarkae. Reading & Extended Writing To use pseudocode to represent programs to allow programmers to code the program in different languages. SMSC Within the learning environment students are encouraged developing key practical skills, to share research findings a	Software Engineers, Lomputer Tachnicians Numeracy Pseudocode. to work collaboratively whilst nd to peer assess each other's work to	Reading & Extended Writing All previous reading & extended writing content. SMSC Developing transferrable skills (accurate retention and rec organising work, understanding knowledge recall techniqu	Software Technicia Numerac All previo call over lon ues)
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	Using algorithms combined with programming fundamentals to solve intermediate problems. To develop sequencing vocabulary. SMSC Within the learning environment students are encouraged developing key practical skills, to share research findings i highlight strengths and areas of development.	Software Engineers, Computer Tachniciasa Numeraoy Trace tables, search and sort algorithms, AND, OR and NOT. I to work collaboratively whilst and to peer assess each other's work to	Topics covered - now stretching and embeddeding knowledge Reading & Extended Writing Using conditional statements as part of an instruction. Writing robust programs to prevent input errors. SMSC Within the learning environment students are encouraged developing key practical skills, to share research findings a highlight strengths and areas of development.	Technicians Numeracy Logic errors, trace tables and boolean operators. to work collaboratively whilst nd to peer assess each other's work to	Reading & Extended Writing Using a programming language to solve intermediate problems. To develop sequencing vocabulary. SMSC Within the learning environment students are encouraged to wo key practical skills, to share research findings and to peer assess strengths and areas of development.	Software Engineers, Computer Techniciase Numeracy Run-time errors. rrk collaboratively whilst developing each other's work to highlight	Topics covered - now stretching and embeddeding knowlarkae. Reading & Extended Writing To use pseudocode to represent programs to allow programmers to code the program in different languages. SMSC Within the learning environment students are encouraged developing key practical skills, to share research findings a highlight strengths and areas of development.	Software Engineers, Lomputer Technicase Numeracy Pseudocode. to work collaboratively whilst nd to peer assess each other's work to	Reading & Extended Writing All previous reading & extended writing content. SMSC Developing transferrable skills (accurate retention and rec organising work, understanding knowledge recall techniqu	Software Technicia Numerac All previo call over lon ues)
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To have a different cover Cor individua cultural o technolog Links to c Teachers, Software Technicia Numerac Trace tab algorithm y of recyclir o dangerou g.

	Term 6	
	Topics: HTML Web Design	ut
tudents to understand k	Knowledge & Skills:	Why? This will provide a platform to
ets work and how they can	and intelligently. Networking attributes and protocols and	progress into iMedia and Media
real world environments.	system software.	Studies at KS4/KS5 level.
reers	Group Differentiation	Links to careers
Accountants, Financing	D1, D2, D3 + D6	Teachers, Website Developers,
nts and Data Analysts.	Initial differentiation to ascertain quality of knowledge.	Maintenance Engineers and Software
	Reading & Extended Writing	Engineers. Numeracy
ulations (+, -, * and /),	Creating, editing and formatting website information to	Working with page dimensions and
nd formulaes to calculate	create an interesting product. To check for SPAG errors to	individual element dimensions. Using
within the spreadsheets.	allow the website to be professional.	the correct syntax.
	SMSC	
heir problem solving skills.	As students develop their skills in a range of software they	are challenged to work in groups to
gain knowledge of how	ind solutions whilst developing respect for the ideas and o particularly prevalent in the design phase of the task	pinions of others in their team; This is
	prevention one design phase or the task.	
	Pupils may use paired programming to assist in the develop	oment of programming skills and to
	communicate ideas to each other in a respectful and suppor	tive manner.
	Topics: Ethical Legal Cultural & Environmental Impacts of I	Digital Technology
	Knowledge & Skills:	Why?
e the operating system and users. To make students	Understand ethical, legal, cultural and environmental	Builds on moral standings and being a better citizen. To protect the
he features available of	miguer of digital redinology.	environment and reduce carbon
ware.		footprints.
reers	Group Differentiation	Links to careers
Program Developers,	D4 + D6	Teachers, Program Developers,
Engineers, Computer	Topics covered - group discussion and arguments for and	Software Engineers, Computer
S.	against. Reading & Extended Writing	Technicians.
ntation and data	Laws specific to computer usage and how to keep people	Legislation dates.
on.	and their personal data protected.	
	SMSC	
on a global scale. Pupils are	Whilst studying various aspects of Computing students are	asked to reflect on how different
ountries would need more	cultures are portrayed on the internet and why or who is p	ortraying them in this way. Students
	are also challenged to think about how differing cultures an	ccess and use the internet and what
	implications this has on the individual and the culture.	
	T	
ision Techniques	TODICS: GLSE EXAMS	
ision Techniques	Knowledge & Skills:	Why?
ision Techniques	Rowledge & Skills:	Why?
ision Techniques	ropics:scSE Exams Knowledge & Skills:	Why?
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ision Techniques	Topics: GCSE Exams Knowledge & Skills:	Why?
ision Techniques on for GCSE Exams.	ropus: sGSE Exams Knowledge & Skills: Group Differentiation	Why?
ision Techniques on for GCSE Exams. reers Program Developers,	Topics: GCSE Exams Knowledge & Skills: Group Differentiation	Why?
ision Techniques on for GCSE Exams. reers Program Developers, Engineers, Computer	Topus: GCSE EXAMS Knowledge & Skills: Group Differentiation	Why?
ision Techniques on for GCSE Exams. reers Program Developers, Engineers, Computer	Topus: sCSE EXAMS Knowledge & Skills: Group Differentiation Reading & Extended Writing	Why? Links to careers Numeracy
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