	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	E-Safety and File & Folder	Logic & Problem Solving	DeltaFest Project	DeltaFest Project	Computer Hardware &	Physical Computing using
	Management	Flowcharts & Programming	(Productivity & Graphics)	(Productivity & Graphics)	Introduction to Binary	Microbits
Knowledge	During this first unit, students	Student will learn what is	Students will spend this half-	Students will spend this half-	Students will learn some of the	Building upon the
	will log on and be introduced	meant by the term	term planning for an imaginary	term planning for an imaginary	basic components of a	programming learned during
	to the acceptable usage policy	computational thinking and	music festival—Delta Fest.	music festival—Delta Fest.	computer: how information is	half-term 2, students will apply
	of the school. They will learn	prepare for this years' Bebras	They will learn how to prepare	They will learn how to prepare	input, output, stored and	their knowledge to create a
	how to keep safe online, how	challenge. They will learn the	for the music event, in terms of	for the music event, in terms of	processed. Following this they	program which they can
	to store and retrieve	basics of computer	creating a flyer to promote the	creating a flyer to promote the	will learn how a computer can	interact with physically, using
	information stored on the	programming using a block	event, create a letter to be	event, create a letter to be	represent information with	the Micro:bit.
	network, send and receive	programming language called	sent to potential investors and	sent to potential investors and	nothing other than ones and	
	emails and practice	EduBlocks, to prepare them for	use a spreadsheet to keep	use a spreadsheet to keep	zeroes.	
	professional acturate typing.	a text-based language, Python,	track of the costs of running	track of the costs of running		
		in Year 8	the event and potential	the event and potential		
			income.	income.		
Skills/Concepts	Using social media safely is an	In these introductory lessons,	Computing includes digital	Computing includes digital	Students will learn some of the	This sequence builds upon the
	important skill. Students will be	students will learn some of the	literacy and so this early	literacy and so this early	basic components of a	programming work done
	taught good practice and the	fundamentals of computer	module introduces the	module introduces the	computer: how information is	during half-term 2 and gets
	dangers to be aware of as one	programming.	students to some common	students to some common	input, output, stored and	students practiced in solving
	of the first topics in the		productivity tools they will	productivity tools they will	processed. Following this they	problems by writing a
	Computing curriculum.		likely use across school and in	likely use across school and in	will learn how a computer can	computer program.
			their future careers	their future careers.	represent information with	
					nothing other than ones and	
					zeroes.	
Links to Prior	Students will have been taught	Students will learn how basic	Students will have had prior	Students will have had prior	Students will have learned the	Students build on the
Learning	basic computing skills at	day-to-day activities can be	experience of creating	experience of creating	basic concept of binary	theoretical understanding
	Primary school and will already	broken down into key steps.	promotional posters and	promotional posters and	meaning on and off	gained during Half Term 2
	be aware of some online safety	Students will have had	writing letters at Primary	writing letters at Primary		
	issues	previous exposure to block	School	School		
		based programming at Primary				
		School				
Assessment	Assessment based on HT1/HT2	Assessment based on HT1/HT2	No Assessment	No Assessment	Assessment based on HT5/HT6	Assessment based on HT5/HT6
	topics at end of HT2	topics at end of HT2			topics at end of HT6	topics at end of HT6
National	Bullet Point 9	Bullet Point 1,3	Bullet Point 7,8	Bullet Point 7,8	Bullet Point 4,5	
Curriculum Links						

	HT1	HT2	HT3	HT4	HT5	HT6
Year 8	E-Safety, Internet & WWW	Logic & Problem Solving	EduBlocks & Python	Key Figures of Computing	HTML Web Unit	Physical Computing - Microbits
	History and Networks	PixelArt & Bitmap Images	Programming			& Robots
Knowledge	Students will learn about how	Students will learn what is	Students will learn about the	Students will learn about key	Students will learn how web	Building upon the
	to stay safe online and be	meant by the term	Python programming language	inspirational people from the	pages are developed using the	programming learned during
	aware of the risks of	computational thinking and	using the EduBlocks website.	world of Computer Science.	HTML language. Students will	half-term 2 & year 7, students
	communicating through social	prepare for this years' Bebras	Students will be able to learn	They will learn about how they	design and create a web site	will apply their knowledge to
	media.	challenge. They will learn how	how to code using a block	became involved in computer	based on a key theme and	create a program which they
	Students will then learn about	images are constructed using	approach and understand the	science and the impact they	learn how to use the HTML	can interact with physically,
	the history of the Internet &	pixels and create their own	Python syntax. Students will	made to the world of	language to develop modern	using the Micro:bit and also
1	World Wide Web including the	piece of PixelArt. Students will	tackle challenges and create	technology.	interactive websites	physical robots.
	difference between LAN/WAN	also investigate Bitmap	programmable solutions to			
1	Networks	graphics	problems.			
						
Skills/Concepts	Using social media safely is an	Students will learn valuable	Students will gain skills in	Students will learn that people	Students will learn HTML, CSS	This sequence builds upon the
	important skill. Students will be	problem solving skills and be	decomposition (breaking	from different backgrounds,	and Javascript to be able to	programming work done
	taught good practice and the	able to show their creativity	problems down) and learn how	countries and genders have	develop a website that meets	during half-term 2 and gets
	dangers to be aware of as one	using PixelArt	programs are sequenced.	made a major impact on	modern standards. Students	students practiced in solving
	of the first topics in the		Students will learn key	society and the student's lives	will be aware of key design	problems by writing a
	Computing curriculum.		terminology used in		decisions that make a website	computer program.
	<u> </u>		programming languages.	[_]	successful.	
Links to Prior	Students will build on their	Students will learn how basic	Students will have had prior	Students will be aware of some	Students will be aware of good	Students build on the
Learning	previous learning from Year 7,	day-to-day activities can be	understanding of block	key figures from popular	features of websites and how	theoretical understanding
	understanding the risks of	broken down into key steps.	programming environments	culture and previous Year 7	to interact with websites	gained during Half Term 2
	Online use and their awareness	Students will already have	and problem solving skills from	lessons		
	of the concept of the Internet	experiences of editing images	Year 7.			
						
Assessment	Assessment based on HT1/HT2	Assessment based on HT1/HT2	No Assessment	No Assessment	Assessment based on HT5/HT6	Assessment based on HT5/HT6
	topics at end of HT2	topics at end of HT2	ļ	ļ'	topics at end of HT6	topics at end of HT6
National	Bullet Point 9		Bullet Point 3			Bullet Point 1
Curriculum Links	1					

	HT1	HT2	HT3	HT4	HT5	HT6
Year 9	Online Reputation & Prevent	ICT Option Block & Searching	Bython Programming	History of Computing	CyberSecurity	Minecraft EDU
	Binary, Hex & Character Sets	and Sorting Algorithms	Fython Programming	History of Computing	Cyberseculity	
Knowledge	Students will learn about how	Students will focus on a key	Students will build on their	Students will be taken on a	Students will learn about the	Students will explore the world
	to stay safe online and be	area of the ICT curriculum	Python skills developed in Year	journey of the history of	threats involved in online	of Minecraft learning how to
	aware of the risks of	chosen for it's links to Key	8 and move to fully typed	computing from 1940 to 2000.	Cyber Crime. Students will	apply computational thinking
	communicating through social	Stage 4 courses.	Python programming. They will	Students will learn about the	tackle challenges designed to	skills within the block
	media including the risks of	Students will also learn about	implement key programming	key figures involved in the	test their analytical and	environment and develop their
	radicalisation through social	Searching and Sorting	constructs Sequence, Selection	advancement of technology	problem solving skills to	Python programming skills to
	networking and how to report	algorithms. They will	and Iteration	and the major developments	identify a prolific cyber	automate world creation.
	it.	understand how computers		of each decade.	criminal	
	Students will also learn about	organise and search through				
	Binary, Hexadecimal, ASCII &	data on their device.				
	Unicode Charactersets					
Skills/Concepts	Using social media safely is an	The skills developed in this unit	Students will be able to use	Students will be able to reflect	Students will learn about	Students will develop their
	important skill. Students will be	will be directly transferrable to	Inputs, Outputs and different	on the impact each decade has	information gathering, data	problem solving skills and
	taught good practice and the	Key Stage 4.	Data Types.	had on their current lifestyle.	analysis, pattern recognition	express their creativity to
	dangers to be aware. Students	Students will be able to apply	Students will use different data	What inventions have led to	and problem solving	create virtual worlds that
	will also learn how to use	different searching and sorting	structures to be able to	the technology they take for		amaze.
	Binary addition and convert to	algorithms to be able to	manipulate data for a given	granted.		
	and from Hexadecimal	process data quickly and	purpose			
		efficiently				
Links to Prior	Students will build on their	Students will build on key skills	Students will build upon their	Students will build on their	Student's previous work on the	Students will call upon their
Learning	previous learning from Year 7	developed so far in the KS3	knowledge of EduBlock Python	knowledge of key figures from	BEBRAS challenges will be	problem solving skills and their
	& 8, understanding the risks of	curriculum	in Year 8 and move towards	Year 8 and also their own	applied to real life cases	Python programming
	Online use and their awareness		typing their code fully.	understanding of how		knowledge to create
	of the concept of the Internet			technology has developed		Impressive worlds
Assessment	Assessment based on HT1/HT2	Assessment based on HT1/HT2	No Assessment	No Assessment	Assessment based on HT5/HT6	Assessment based on HT5/HT6
	, topics at end of HT2	topics at end of HT2			topics at end of HT6	topics at end of HT6
National	Bullet Point 4,6,9	Bullet Point 2	Bullet Point 3			
Curriculum Links						