Super-Curricular Opportunities										
Subject	Key Stage Three	KS3 Book/Broadcast	Pre GCSE/GCSE	GCSE Book/Broadcast	Post-16	Post-16 Book/Broadc-	Websites / Virtual			
		/Competition		/Competition		ast/Competition	Tours			
Compu	Students learn two	BBC Bitesize	<ul> <li>Keep up to date with</li> </ul>	• 2001: A Space	Understand the	Documentaries:	HM Government's			
ter	text based	webpages KS3 ICT -	the social impact of	Odyssey (1968)	basics of	The Code-Breakers	Cyber Schools			
Science	programming	BBC Bitesize	ICT – BBC technology	• The Net(1995)	computational	(2006)	Programme			
	languages	• <u>Teach-ICT</u>	pages	<ul> <li>Enemy of the state</li> </ul>	thinking	• Steal This Film (2006)	The free programme			
	<ul> <li>Python – a high level</li> </ul>	<u>Computer Science</u>	Research the impact	(1998) – state	Research different	Hackers Are People	that empowered over			
	language (free	<u>learning for school</u>	of Alan Turing on the	monitoring of private	types of data	Too (2008)	100,000 young people			
	download of IDE called	<u>students</u>	development of	communications	transmission	Hackers Wanted	to try cyber security			
	IDLE)	• KIDS REACT TO OLD	computing. Why is he	• A.I. Artificial	Practice Boolean	(2010) • The Virtual	Cyber Discovery: HM			
	Small basic (free	<u>COMPUTERS -</u>	important?	Intelligence (2001)	algebra	Revolution (2010)	Government's Cyber			
	download from	<u>YouTube</u>	Research different	Watch 'Click' on BBC	Who was Edsger	• Code - Breakers,	<u>Schools Programme</u>			
	Microsoft)		types of interface -	News channel	Dijkstra? Why is he	Bletchley Park's Lost	(joincyberdiscovery.co			
	Scratch (free	Watch the Imitation	where are they		important?	Heroes (2011)	<u>m)</u>			
	download from MIT or	Game movie to learn	needed?	Ted talks on	Who is Charles	We Are Legion	Cyberthreats			
	use of online resource)	about the Enigma	Download Little man	Technology: <u>TED Talks</u>	Richardson Hoare?	(2012)	Emerging Cyberthreats			
	Student also learn	code.	computer – run		Why is he important?	DEFCON: The	Norton Internet			
	scripting languages		practical activities	Books:	Research algorithmic	Documentary (2013)	Security Center			
	<ul><li>Javascript –</li></ul>	Podcast on Science	Practice	The Pattern on the	sorting	The Internet's Own	Cisco Networking			
	www.codeacademy.co	and Technology <u>BBC</u>	programming skills	Stone: the Simple	Assembly languages	Boy: The Story of	courses <u>Cisco</u>			
	<u>m</u> or	World Service - World	Number based	Ideas that make	— Isaac Computer	Aaron Swartz (2014)	Networking Academy.			
	www.codecombat.co	Wise Web -	conversion systems –	Computers Work by W	Science Create low		Build your skills today,			
	<u>m</u>	<u>Downloads</u>	Binary- Hex – Octal	Daniel Hills.	level code using LMC		online. It's Free - Cisco			
	HTML and CSS as		etc.		which operates a		Learn Java			
	above	Books: Computational	Understanding		simple program.		<u>Java Tutorial</u>			
	BBC Microbit	Fairy Tales by Jeremy	computer networks		Generate LMC code		(w3schools.com)			
	opportunities	Kubica.	What are the		from a simple high-		Work with XML			
	https://www.microbit.		dangers of databases?		level program you		documents			
	co.uk/teachers-and-		Make a list of all the		have created in Java.		Semantic Web - W3C			
	<u>parents</u>		databases you appear		<ul> <li>visualising data</li> </ul>		Learn Programming			
			on.		structures and		Language			
	Visit the Museum of		Search for logic gates		algorithms through		<u>C++ Tutorial</u>			
	Technology in		online and complete		animation - VisuAlgo		(w3schools.com)			
	Hertfordshire to look		activities		Compare common		Create a webpage			
	at the technological				algorithms and data		using PHP			

revolution since the	Practice some	structures by	PHP Tutorial
1850s	Python techniques on	researching the	(w3schools.com)
	HackerRank <u>Activities</u>	differences between	
	Classic CS Unplugged	the ways they operate.	
	Write a short essay	Using Big-O to	
	debating the following	compare efficiency.	
	question – is		
	technology increasing		
	people's quality of		
	life?		