Computers	Year 7	Year 8	Year 9
Topics Studied	Digital Citizenship	Networks: students learn about standalone and	Spreadsheet Modelling: Students are
	Students learn of organisation within Computing as well	networked devices: Local Area Networks (LANs)	introduces to data, information,
	as basic proficiencies within Microsoft. Safety of being	and Wide Area Networks (WANs) with the	formatting, formula, functions and graphs
	online features heavily	advantages and disadvantages of both.	Introduction to how devices/computers
	Using Media: students learn basic software skills and	Introduction to Podcasting: students explore the	work: Students are introduced to input,
	legislation, trustworthiness of sources-for example:	rudiments of Audacity, examining how to	process, output. To understand the insides
	word processing, spreadsheet, desk top publishing,	manipulate the tools to produce high quality	of Personal Computers (PC),
	copyright, researching and blogging	audio	software/hardware, RAM/ROM and
	Desk Top Publishing	Introduction to Edublocks: students explore the	permanent storage devices
	Students learn to create documents used by businesses.	features of visual programming and text based	Introduction to Graphics
	Introduction to Data Representation: students explore	programming	software: Students learn about how to
	the concept of Data Representation Binary, ASCII,	Introduction to Media students learn to pre-	import, edit, manipulate and export images
	binary addition, Hexadecimal Number Systems and	production, production and post production of	using Photopea
	Conversions	median products	Python: To explore the concept of Python
	Introduction to Control Technologies: students learn	Cybersecurity: Students learn about the	<ul> <li>– a Text-Based Programming Introduction</li> </ul>
	the basic skills they need to understand algorithms, the	importance of data and how humans actions can	to Computer Science
	construction of flow charts and the use and sequencing	make data more vulnerable to theft and	Privacy and Surveillance Students
	of events via Flowol	exploitation. Students learn about common	understand how data can be lost and
	Introduction to Scratch: students explore the features	cyberattacks and measures to help protect IT	stolen as well as the legal framework in
	of Scratch graphical programming software	systems. Students learn about the laws	Computing
		protecting data	
Skills and Key Knowledge Taught	-Creating a memorable and secure password for an	-Recognise that computers follow the control	Calculations, data, information, graphs,
	account on the school network	flow of input/process/output	analysis, formulae, functions, formatting,
	-Recognise the attributes of a respectful email	-Predict and modify the outcome of a simple	primary and secondary sources and
	-Describe how to communicate with peers online	sequence	context.
	-Describe cyberbullying and the effects of cyberbullying	-Predict the outcome of a simple sequence that	Input, process, output, motherboard, CPU,
	-Understand the schools AUP log on to the school	includes variables	software/hardware, RAM/ROM and
	system	-Trace the values of variables within a sequence	permanent storage devices (secondary).

-E-safety (passwords, cyberbullying, stranger danger	-Make a sequence that includes a variable	-Rudiments of graphic design
topics)	-Create conditions that use comparison operators	-Predict and modify the outcome of a
-Folder structure	(>,<,=)	simple sequence
-Presenting to an audience	-Create conditions that use logic operators	-Predict the outcome of a simple sequence
-Understand different software features and their use	(and/or/not)	that includes variables
-Understand appropriate images online	-Define iteration as a group of instructions that	-Trace the values of variables within a
-Copyright designs and patents act	are repeatedly execute	sequence
-How to give peer feedback and responding to feedback	-Implement count	-Make a sequence that includes a variable
-Credibility of sources	-controlled iteration in a program	-Create conditions that use comparison
-Recognising fake news	-Detect and correct errors in a program	operators (>,<,=)
-Researching, acknowledging sources and creating a	(debugging)	-Create conditions that use logic operators
blog	-Binary number system (conversion of binary to	(and/or/not)
-Learn about business documents	denary and reversed)	-Define iteration as a group of instructions
-Recognise that computers follow the control flow of	-ASCII and Hex will be introduced to most able	that are repeatedly executed
input/process/output	-Algorithms and Flowol program	-Implement count-controlled iteration in a
-Predict and modify the outcome of a simple sequence	-Learn about business documents	program
-Predict the outcome of a simple sequence that	-Rudiments of web design and podcasting	-Detect and correct errors in a program
includes variables		(debugging)
-Trace the values of variables within a sequence		-data, privacy and the law
-Make a sequence that includes a variable		-types of social engineering
-Create conditions that use comparison operators		-hacking
(>,<,=)		-Malware
-Create conditions that use logic operators (and/or/not)		Cyber threat, prevention and protection
-Define iteration as a group of instructions that are		
repeatedly executed		
-Implement count-controlled iteration in a program		
-Detect and correct errors in a program (debugging)		
-Algorithms and Flowol program		

Links for	Use of student resources located within WHS SharePoint for students		
Support/	Complete Digital Safety and Digital Literacy courses for free online to ensure students understand E-Safety		
Help at	Use of additional homework booklets, therapy work packs and/or additional resources from the class teacher via Synergy		
Home	Participation in enrichment opportunities and/or extra-curricular activities		
	Teacher discussions following assessments and/or reports Facilities at home to use and practice programs on (after school clubs available to enable this) Youtube tutorials and guidance on using programs covered within our schemes of learning Researching key figures in the progression of computers to act as role models Accessing STEM resources (www.stem.org.uk) for free learning at home for secondary computing and progression		
	Careers research: researching careers within Computing or STEM		
	Attending fairs, workshops or IT events		