			Curriculum Map Year 8 Computing			
Spelling	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	Esafety	Web Design	Spreadsheets	ICT – Year 8 Enterprise Project	Python	Computer science
Intent	To learn how to stay safe online.	Identify what websites are, who uses them and what for. Use a readymade web page for a specific purpose Edit and add buttons to web pages. Webpages with titles	Understand what a spreadsheet is. Know why a spreadsheet is used. Become familiar with basic spreadsheet skills. Apply basic spreadsheet formatting skills. Understand basic spreadsheet formulae. Understand spreadsheet functions. Test a hypothesis using a spreadsheet model	Be able to write a simple hypothesis and identify different data types. be able to explain methods for testing a hypothesis and identify different data types. be able to evaluate methods for testing a hypothesis and identify different data types	Write, save, and run a program in script mode in python. Be able to identify strings, integers in python. Be able to write a variable in python. Be able to identify arithmetic operators and a range of statements in python such as IF-ELSE.	Be able to understand the different concepts in computer science. Looking at identifying different hardware and software, understand how to stay safe online when using social media and from cyberbullies, Understand the key concept cybercrime. Learn what internet security is and encryption of data. About Understand the key elements of the computer misuse act. Be able to understand the difference between types of devices i.e., desktops, laptops, netbooks. Understand and

						learn about what supercomputers are and where they are stored. Be able to identify different types of system security on a PC and understand how bandwidth measures.
Key Knowledge	Understand the risks and solutions for the diverse types of E-Safety topics, Cyber bullying, Predators, Mobile Phone use, Viruses,	Domain Names, HTML, Types of browsers, Understanding browsers, Commercial websites, subject specific vocabulary,	Formatting, formulas, when and where a spreadsheet can be used and why, creating a useful spreadsheet	Hypothesis, marketing, promotion, presenting, product design	Understand how to use different python code and statements to create and run a program. Be able to use if else statements to make a more complex program.	Understand the key concept cybercrime. Learn what internet security is and encryption of data. About Understand the key elements of the computer misuse act. Be able to understand the difference between types of devices i.e., desktops, laptops, netbooks. Understand and learn about what supercomputers are and where they are stored. Be able to identify different types of

						system security on a PC and understand how bandwidth measures
Key Skills	Publisher skills, inserting images, text, editing images, text, using templates, formatting a Publisher document, managing websites, editing text, adding links	logging on, retrieving work, making folders, using folders, saving work, house style, managing websites, editing buttons, editing titles, adding text to pages,	Basic formatting on Excel, adding formulas to make calculations, using functions, creating charts	Creating and using a survey and analysing results to produce a product design	Using python software, exploring how to input strings, variables, integers, floats, print statements, input, output, if and else statements. Be able to use a flow chart to create a program.	Understanding the difference between different types of computing terminology i.e. bandwidth and servers. Be able to understand the importance and usage of a supercomputer. Able to learn about how to stay safe on social media. The consequences of cybercrime and the importance of internet security.
Key Vocabulary	E-Safety Evaluate Formatting Cyber bullying Predator Risks Phishing	Password Secure Folder Structure Domain Browser Website Web Pages	Excel Spreadsheet Cell Row Column Formula Functions Charts VLOOKUP Absolute Cell Reference	Hypothesis Marketing Presenting Survey Analysis	Python Input Output String Print statement IF else statement Variable Integer Float	Cyber crime Bandwidth Desktops Netbook Laptop Internet safety Firewall Supercomputer Encryption Anti-Virus

			If Statement		Arithmetic operators Flow charts Debugging Syntax error IDLE	Computer misuse act Access level Computer BIT Bytes Data theft Hacking
Key Reading						
End Point	Explain the meaning of E-Safety Explain the purpose and audience of your leaflet Write about the risks and solutions of Cyber Bullying Write about the risks and solutions of Predators Identify the advantages and disadvantages of E-Safety Explain the impact that ICT has on Society Write about the risks and solutions of a mobile phone Identify the advantages and	Create appropriate folder structure to support you in organising all your files and folders in a professional manner. Describe what websites are, how they are created, what browsers are, who might create/use a website. identify web pages and web software for a specific purpose. Webpages with working buttons. Edit and add titles to web pages.	To Format a basic spreadsheet. Navigate around a spreadsheet. Use basic formulae. Use functions, drag & fill, Apply absolute cell referencing.	Create and produce a survey to appropriately market a product and the right audience.	Run, create a program in python. Using variable, strings, input and output to create in interactive mode a program in python.	Complete a booklet with starters about the following key topics including starters: Supercomputer, safety, cyberbullying, Cyber stalking, Cybercrime, Antivirus software, Encryption, Bandwidth and hacking.

	disadvantages of a mobile phone Explain the impact of using a mobile phone Explain the importance of consistency Write about the risks and solutions of spam Write about the risks and solutions of viruses					
Form of Assessment	Online assessment during year 8 exam week	Teacher Feedback in lesson	Online assessment during year 8 exam week	Online assessment during year 8 exam week	Online assessment during year 8 exam week	Teacher Feedback in lesson. Purple pen in starters and booklet feedback in lessons with a end of topic assessment in lesson (online).
Enrichment Opportunities – Coding Club						
Leadership Opportunities -						