

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	E-Safety	The Waterpark Project	Spreadsheets	ICT & Enterprise Project	Python	Computer Science
Intent	To learn how to stay safe online.	Develop understanding of Microsoft Office and use of all programs within the suite.	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 design a simple marketing and branding case and identify different aspects of marketing and branding for a business. Be able to explain methods for creating and designing a range of materials to market a product or business.	Write, save and run a basic program in Script mode. Identify strings in python	Complete different tasks in the form of word searches, questions, quizzes and comprehension about the different computer components, hardware and software. Be able to explain different computing pioneers. Understand about different computer viruses.
Lesson Intentions	Understand what is meant by the term Cyber bullying Understand what is meant by the term Predator Understand the risks and dangers of mobile phone use Understand the risks of Malware	Carry out research for a project Create a loyalty card Create a flyer or poster to promote a theme park Create an Itinerary Forecast the cost of a trip	Understand how we use Excel spreadsheets to produce tables of data Learn how to enter numbers, labels, and simple formulae into a spreadsheet and use the data to do calculations Learn how to apply formatting to a spreadsheet Explore what happens if you	Understand what is meant by Branding Branding and packaging Creating branding documents Understanding the use of a mood board	Learn about the purpose of Coding Learn about the purpose of Flowcharts Learn about the purpose of Pseudocode Know the rules for variable names and use variables in a program	Understand keywords used in computing Recognize symbols that represent computing features Describe keywords and their definitions Know the history of where computers began Know different computing pioneers and what they are famous for Know the different items of computer hardware and be

			change data in a spreadsheet Understand and use the vocabulary relating to spreadsheets e.g., <i>formula, models, sum</i> Understand how simple spreadsheet models can solve problems. Learn how formulae can answer 'What if...? Questions Learn how to use your data tables to create graphs		Learn how variables are created and used in Python	able to explain what each one is used for Apply and use PowerPoint skills to complete the Computer Science Knowledge Builder PowerPoint
Key Knowledge	Understand the risks and solutions for the different types of E-Safety topics, Cyber bullying, Predators, Mobile Phone use, Viruses,	Common Office documents in the working world, MS Office Skills, budgeting, Organising a trip	Formatting, formulas, when and where a spreadsheet can be used and why, creating a useful spreadsheet	Branding, marketing, promotion, presenting, product design	Understand how to use different Python code to build and run purposeful programs	Understand the different computer components, hardware and software. Be able to explain different computing pioneers. Understand about different computer viruses.
Key Skills	Publisher skills, inserting images, text, editing images, text, using templates, formatting a Publisher document, managing websites, editing text, adding links	Saving work, house style power point, MS Office skills, Excel, Word	Basic formatting on Excel, adding formulas to make calculations, using functions, creating charts	Creating and using Microsoft Office Suite to produce a product, logo and market it.	Using notebook and Python software, strings, variables, input, output, print, integers, floats, if and else	Use a given computer science book to complete tasks to expand knowledge.

Key Vocabulary	<u>Word/Phrase</u> E-Safety Evaluate Formatting Cyber bullying Predator Risks Phishing	PowerPoint Excel Word Publisher Audience Purpose Ribbon House Style	Excel Spreadsheet Cell Row Column Formula Functions Charts VLOOKUP Absolute Cell Reference If Statement	Hypothesis Marketing Presenting Branding Analysis Logo Advertise	Python Notebook Input Output Print String Variable Integer Float If/Else Debug	Hardware Software Games consoles Viruses Computing Pioneers Components
Key Reading	PowerPoints to read CyberbullyingPredators Mobile Phone Usage Viruses	The Waterpark Learning Journey				Use a given computer science book to read tasks to expand knowledge.
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 disadvantages of a mobile phone	Be competent in the use of all Microsoft Office Suite's programs to produce a set of professional documents in appropriate designs according to their audience and purpose.	To Format a basic spreadsheet. Navigate around a spreadsheet. Use basic formulae. Use functions, drag & fill, Apply absolute cell referencing.	Create and produce a range of materials to market a restaurant to new customers. - A mood board of ideas - A design for a name and logo (You can decide the name of your restaurant) - A poster to advertise the opening day - A sample menu	run a simple Python program in Interactive mode using strings, integers, variables	Complete different tasks in the form of word searches, questions, quizzes and comprehension about the different computer components, hardware and software. Be able to explain different computing pioneers. Understand about different computer viruses. Understand the different computer components, hardware and software. Be able to explain different computing pioneers. Understand about different computer viruses.

	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					
Links to British Values	Rule of Law Individual liberty Mutual respect	Mutual Respect Individual liberty	Democracy, Mutual respect	Mutual respect, Tolerance	Individual liberty	Individual liberty
Links to Careers	Acceptable use of IT. Respect for others across all fields.	Life skills across all fields. Including further education.	Life skills across many fields. Accountancy, business ownership, Personal finance.	Business ownership, advertising, sales.	Computer programming, app design, games design.	Computer engineer, Computer programming.
Form of Assessment	Online assessment during year 7 exam week	Online assessment during year 7 exam week	Online assessment during year 7 exam week	Online assessment during year 7 exam week	Online assessment during year 7 exam week and in class feedback and testing	In class feedback and testing
Enrichment Opportunities	Coding Club					
Leadership Opportunities						