Computing Year 4 Overview

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	Autumn	Spring	Summer	
	Year 4 NC objectives	Year 4 NC objectives	Year 4 NC objectives	
Computing Year 4	 Understand computer networks, including the internet; how they can provide multiple services, such as the world wide web, and the opportunities they offer for communication and collaboration. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Use technology safely, respectfully and responsibly; 	 Understand computer networks including the internet; how they can provide multiple services, such as the world wide web and the opportunities they offer for communication and collaboration. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. 	 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. 	
Ü	Year 4 Key Learning	Year 4 Key Learning	Year 4 Key Learning	
	 Computing systems and networks To understand that software can be used to work online collaboratively. To know what type of comments and suggestions on a collaborative document can be helpful. To know that you can use images, text, transitions and animation in presentation slides. Programming 1 That a variable is a value that can change (depending on conditions) and know that you can create them in Scratch. What a conditional statement is in programming. That using variables can help you to create a quiz on Scratch. Online Safety To describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy. 	 To know that websites should be informative and interactive. Skills Showcase 	 Use decomposition to solve problems To understand what pattern recognition and abstraction mean. To understand how to create an algorithm and what it can be used for. Data handling To know that computers can use different forms of input to sense the world around them so that they can record and respond to data ('sensor data'). To know that a weather machine is an automated machine that respond to sensor data. Online Safety To explain that technology can be designed to act like or impersonate living things. To explain how technology can be a distraction and identify when I might need to limit the amount of time spent using technology. 	
Vocabulary	Average, collaboration, format, contribution, comment, variable, value, orientation, transitions	Assessment, audience, embed, evaluate, design, HTML, copyright, CSS, end tag, hacker	Computational thinking, abstraction, script, sequence, variable, logical reasoning, sensor data, accurate	