Moorside Primary School
Year 4 Overview

National Curriculum Aims
-Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation. -Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems. -Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems. -Are responsible, competent, confident and creative users of information and communication technology.

National Curriculum Subject Content
-Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. -Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. -Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. -Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they off for communication and collaboration -Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. -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, valuating and presenting data and information. -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Information Technology			
Laptop skills and Word Processing	Presentations, Web Design and eBook Creation	Video Creation	Data Handling
-Can use text short cuts to cut, copy, paste and delete to organise text. -Use font size appropriately for audience and purpose. -Use spell checker	-Can create an interactive ebook including hyperlinks. -Can create a simple presentation	-Can add music and sound effects to a film. -Can create a green screen video with an animated background.	-Can create their own online multiple choice questionnaire -Can input data into a spreadsheet and export the data in different ways (bar chart, pie chart etc)

Computer Science	
Computational Thinking and Coding/ Programming	Computer Networks
-Use simple selection in programs -Use different forms of output. -Use logical reasoning to systematically detect and correct errors in programs -Use different forms of outputs.	-Understand servers on the internet are located across the planet. -Know how email is sent via the internet.

Moorside Primary School
Year 4 Overview

Digital Literacy				
Self Image and Identity	Online relationships	Managing online information	Health and Wellbeing	Privacy
-Know how their own identity online maybe different to that in real life and how others may perceive this.	-Can give examples of how to be respectful online. Describe safe/fun experiences they can complete online - Can describe how other mays find information out about them from looking online and how all of this information might not be true. -Identify where online bullying may take place (social media, text message etc) -Know how what they post may affect someone else's reputation, -Explain how information about a person online could have been created, copied or shared by others.	-Can analyse information and differentiate between opinion, belief and fact. -Know that lots of people sharing the same opinion does not make it true. -Can talk about different online adverts and can recognise these when they appear online	-Know technology may distract them from doing other things. -Know when to limit time on devices and how.	-Can explain what makes a strong password. -Describe strategies for keeping personal information private. -Explain why others online may pretend to be them or someone else and why they may do this. -Explain how the internet can be monitored.