



Computing Progression Map



	Key Stage 1	Key Stage 2
Computer Science		
Problem solving	Understand what algorithms are.	Design, write and debug programs that accomplish specific goals.
	Understand how algorithms are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Controlling or simulating physical systems.
		Solve problems by decomposing them into smaller parts
Programming	Create and debug simple programs.	Use sequence, selection and repetition in programs; work with variables.
		Work with various forms of input and output
Logical thinking	Use logical reasoning to predict the behaviour of simple programs.	Use logical reasoning to explain how some simple algorithms work.
		Use logical reasoning to detect and correct errors in algorithms and programs.
		Understand computer networks including the internet.
		Understand how networks can provide multiple services, such as the world wide web.
Information Technology		
Creating content	Use technology purposefully to organise, store and retrieve digital content.	Select, use and combine a variety of software (including internet services) on a range of digital devices.
	Use technology purposefully to create and manipulate digital content.	Design and create a range of programs, systems and content that accomplish given goals.
Searching		Use search technologies effectively.
		Appreciate how search results are selected and ranked.
Digital Literacy		
E-safety	Use technology safely and respectfully.	Use technology safely, respectfully and responsibly.
	Keeping personal information private.	Recognise acceptable/unacceptable behaviour.
	Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Know a range of ways to report concerns and inappropriate behaviour.

		Be discerning in evaluating digital content.
		Understand the opportunities networks offer for communication and collaboration.
Using IT beyond school	Recognise common uses of information technology beyond school.	