	Key Stage 1								
Subject Content	understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	create and debug simple programs	use logical reasoning to predict the behaviour of simple programs	use technology purposefully to create, organise, store, manipulate and retrieve digital content	recognise common uses of information technology beyond school	use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies			
	Understand what algorithms are	Create simple programs	Use logical reasoning to predict the behaviour of own programs	Use technology purposefully to create digital content	Recognise common uses of information technology at home	Use technology safely			
	Understand that algorithms are implemented as programs on digital devices	Debug simple programs	Use logical reasoning to predict the behaviour of others' programs	Use technology purposefully to store digital content	recognise common uses of information technology beyond school	Keep personal information private			
	Understand that programs execute by following precise and unambiguous instructions			Use technology purposefully to retrieve digital content		Use technology respectfully			
				Use technology purposefully to organise digital content		Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies			
				Use technology purposefully to manipulate digital content					
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Key Stage 2										
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 offer 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, evaluating 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.				
Write programs that accomplish specific goals	Use sequence in programs	Use logical reasoning to detect and correct errors in programs	Understand how computer networks can provide multiple services, such as the world wide web	Use search technologies effectively	Select, use and combine software	Use technology responsibly				
Design programs that accomplish specific goals	Use selection in programs	Use logical reasoning to explain how some simple algorithms work	Understand computer networks, including the internet	Appreciate how search results are selected	Design and create content	Identify a range of ways to report concerns about contact				
Debug programs that accomplish specific goals	Use repetition in programs	Use logical reasoning to detect and correct errors in algorithms	Understand the opportunities computer networks offer for communication	Appreciate how search results are ranked	Design and create systems	Identify a range of ways to report concerns about content				
Control or simulate physical systems	Work with variables		Understand the opportunities computer networks offer for collaboration	Be discerning in evaluating digital content	Collect, analyse, evaluate and present data	Recognise acceptable/unacceptable behaviour				
Solve problems by decomposing them into smaller parts	Work with various forms of input and output				Collect, analyse, evaluate and present information					

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