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Year Group: 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception						
Year 1	Computing Systems and Networks	Programming 1 – Algorithms Unplugged	Skill Showcase – Rocket to the Moon	Creating Media – Digital Imagery	Data Handling Introduction to Data	Internet Safety
	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.
Year 2	Computing Systems and Network 1 – What is a computer?	Programming 1 – Algorithms and Debugging	Computing Systems and Network 2 – Word Processing	Programming 2 – Scratch Jr	Creating Media – Stop Motion	Data Handling – International Space Station
	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.

Year 3	Computer Systems	Computer Systems	Programming -	Computer Systems	Creating Media –	Data Handling –
real 3	and Networks 1 – Networks and the Internet	and Networks 2 – Emailing	Scratch	and Networks 3 – Journey Inside the Computer	Video Trailers	Comparison Cards Databases
	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.
Year 4	Computing Systems and Networks – Collaborative Learning	Programming 1 – Further Coding with Scratch	Creating Media – Website Design	Skills Showcase – HTML	Programming – Computational Thinking	Data Handling – Investigating Weather
	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.	Online Safety session to be taught at the beginning of the topic and interwoven through all sessions.



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Year 5	Computing	Programming 1	Data Handling	Creating Media	Programming 2	Skills Showcase
	Systems and	Music	Mars Rover 1	Stop Motion	Micro:Bit	Mars Rover
	Networks;			Animation		
	Search Engines					
	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety
	session to be	session to be	session to be	session to be	session to be	session to be
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	interwoven	interwoven	interwoven	interwoven	interwoven	interwoven
	through all	through all	through all	through all	through all	through all
	sessions.	sessions.	sessions.	sessions.	sessions.	sessions.
Year 6	Computing	Programming	Data Handling 1 –	Creating Media –	Data Handling 2 –	Skills Showcase:
	Systems and	Python	Big Data 1	History of	Big Data 2	Inventing a product
	Networks			Computers		
	Bletchley Park					
	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety
	session to be	session to be	session to be	session to be	session to be	session to be
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	beginning of the	beginning of the	beginning of the	beginning of the	beginning of the	beginning of the
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	interwoven	interwoven	interwoven	interwoven	interwoven	interwoven
	through all	through all	through all	through all	through all	through all
	sessions.	sessions.	sessions.	sessions.	sessions.	sessions.



Key stage 1

Pupils should be taught to:

- 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.

Key stage 2

Pupils should be taught to:

- 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.