	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Digital Literacy Theme	Privacy and Security	Online Bullying	Online Relationships	Health, Wellbeing and Lifestyle	Managing Online Information	Copyright and ownership
Little Explorers	Awesome Autumn – Pumpkin Soup	Winter Warmers — Let's make an igloo!	Springtime – Rabbit Run	Springtime – Seed Sequencing	Boats ahoy! Build a boat	Busy Bodies – Parts of our body
Big Explorers Cycle A	Computer Systems and Networks Y1: Technology around us (CS)	Creating Media Y1: Digital Writing (IT)	Programming A Y1: Moving a robot(CS)	Data and Information Y2: Pictograms (IT)	Creating Media Y1: Digital Painting (IT)	Programming B Y1: Programming Animations (CS)
Big Explorers Cycle B	Computer Systems and Networks Y2: IT around us (CS)	Creating Media Y2: Digital Music (IT)	Programming A Y2: Robot Algorithms (CS)	Data and Information Y1: Grouping Data (IT)	Creating Media Y2: Digital Photography (IT)	Programming B Y2: Programming Quizzes (CS)
Philosophers Cycle A	Computer Systems and Networks Y3: Connecting Computers (CS)	Creating Media Y3: Desktop Publishing (IT)	Programming A Y3: Sequencing Sounds (CS)	Data and Information Y3: Branching Databases (IT)	Creating Media Y3: Stop-frame Animation (IT)	Programming A Y4: Repetition in shapes (CS)
Philosophers Cycle B	Computer Systems and Networks Y4: The Internet (CS)	Creating Media Y4: Photo editing (IT)	Programming B Y3: Events and actions (CS)	Creating Media Y4: Audio production (IT)	Data and Information Y4: Data Logging (IT)	Programming B Y4: Repetition in games (CS)
Trailblazers Cycle A	Computer Systems and Networks Y5: Systems and searching (CS)	Creating Media Y5: Vector Drawings (IT)	Programming A Y5: Selection (CS)	Data and Information Y5: Flat file databases (IT)	Creating Media Y6: 3D Modelling (IT)	Programming B Y6: Sensing – Micro:bit (CS)
Trailblazers Cycle B	Computer Systems and Networks Y6: Communication and collaboration (CS)	Creating Media Y5: Video Editing (IT)	Programming B Y5: Selection (CS)	Creating Media Y6: Webpage creation (IT)	Data and Information Y6: Spreadsheets (IT)	Programming A Y6: Variables – Crumbles (CS)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic:	Marvellous Explorers!	Exploring the Future!	Animal Explorers!	Exploring Growing!	Exploring Buildings!	Go and Explore!
Unit Title:	Awesome Autumn –	Winter Warmers –	Springtime –	Springtime	Boats ahoy!	Busy Bodies -
	Pumpkin soup	Let's make an igloo!	Rabbit Run	Seed Squencing -	Build a boat	Parts of our body
Concepts/	Algorithms, decomposition,	Logic, tinkering,	Algorithms, Persevering,	Algorithms, Decomposition,	Algorithms, decomposition,	Logic, Pattern, Abstraction
Approaches	collaborating	decomposition,	collaborating	Collaborating	creating	
Covered:		collaborating, persevering				
Early	ELG: Building	ELG: Building	ELG: Building	ELG: Building	Communication and	■ Children use and
Learning	Relationships	Relationships	Relationships	Relationships	Language	understand recently
Goals and	■ Work and play	■ Work and play	■ Work and play	■ Work and play	■ 3 and 4 year olds:	introduced vocabulary
Development	cooperatively and take	cooperatively and take	cooperatively and take	cooperatively and take	Understand a question or	during discussions about
Matters	turns with others;	turns with others;	turns with others;	turns with others;	instruction that has two	stories, nonfiction,
Links:	ELG: Fine Motor Skills	ELG: Fine Motor Skills	Active Learning	ELG: The Natural World	parts.	rhymes and poems and
	■ Use a range of small	■ Use a range of small	■ Respond to new	Understand some	Expressive Arts and	during role-play.
	tools, including scissors,	tools, including scissors,	experiences that you bring	important processes and	Design	Understanding the World
	paint brushes and cutlery;	paint brushes and cutlery;	to their attention	changes in the natural	■ 3 and 4 year olds:	■ 3 and 4 year olds:
	ELG: Managing Self	ELG: The Natural World	Creating and thinking	world around them,	Develop their own ideas	Continue developing
	Manage their own basic	■ Understand some	critically	including the	and then decide which	positive attitudes about the
	hygiene and personal	important processes and	Review their progress as	seasons and changing	materials to use to express	differences between people.
	needs, including dressing,	changes in the natural	they try to achieve a goal.	states of matter.	them	Literacy
	going to the toilet	world around them,	Check how well they are	Understanding the world		■ 3 and 4 year olds:
	and understanding the	including the seasons and	doing.	■ 3 and 4 year olds – Plant		- Understand that print has
	importance of healthy food	changing states of matter.	Mathematics	seeds and care for growing		meaning
	choices	Understanding the world	3 and 4 year olds – Discuss	plants. Begin to understand		- Engage in extended
	Understanding the world	■ 3 and 4 year olds –	routes and locations, using	the need to respect		conversations about stories,
	■ 3 and 4 year olds – Begin to understand the	Begin to understand the need to respect and care for	words like 'in front of' and 'behind'.	and care for the natural environment and all living		learning new vocabulary.
	need to respect and care for	the natural environment	Begin to describe a	things.		
	the natural environment	and all living things.	sequence of events, real or	■ Reception – Understand		
	and all living things.	■ Reception – Recognise	fictional, using words such	the effect of changing		
	■ Reception – Understand	some environments that are	as 'first', 'then'	seasons on the natural		
	the effect of changing	different to the one in	as juse, atera	world around them. Explore		
	seasons on the natural	which they live.		the		
	world around them.	Expressive arts and design		natural world around them.		
	The second second	■ 3 and 4 year olds – Join				
		different materials and				
		different materials and explore different textures.				

KS1 Computing Curriculum					
Computer Science	Information Technology	Digital Literacy			
(How computers and computer systems	(the purposeful use of existing programs to	(the skills, knowledge and understanding			
work and how they are designed and	develop products and solutions)	needed in order to participate fully and			
programmed)		safely in an increasingly digital world)			
A- understand what algorithms are; how th	ey are implemented as programs on digital de	vices; and that programs execute by			
following precise and unambiguous instructions					
B- create and debug simple programs					

- D- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- E- recognise common uses of information technology beyond school

C- use logical reasoning to predict the behaviour of simple programs

F- 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

Long Term Plan

Cycl e		Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
		All Aboard!	Fire, Fire!	Up, up and away!	We are Explorers	How does your garden grow?	Africa
A	CS	Computer Systems and networks DEF MIXED		Programing A: Beehots/Floorbots ABC MIXED			Programming B: Scratch Jnr ABC MIXED
	IT		Creating Media: Digital Writing DF		Data and Information: Pictograms DE Link to Y2 Statistics unit (maths)	Creating Media: Digital Painting D	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F
		Aut 1	Aut 2	Spr1	Spr 2	Sum 1	Sum 2
		Moon Zoom	Banquets, Balls and Battles	Fantastic Festivals	Robin Hood and Our Forest	Victorians	Beach combers
В	CS	Computer Systems and networks DEF MIXED		Programing A: Beehots/Floorbots ABC MIXED			Programming B: Scratch Jnr ABC MIXED
	IT		Creating Media: Making Music D		Data and Information: Block Charts DE Link to Y2 Statistics unit (maths)	Creating Media: Digital Photography DE	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F

Key Stage 2 National Curriculum Objectives				
Computer Science	Information Technology	Digital Literacy		
(How computers and computer systems work and how they are designed and programmed)	(the purposeful use of existing programs to develop products and solutions)	(the skills, knowledge and understanding needed in order to participate fully and safely in an increasingly digital world)		

- A design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- B use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- C use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- D 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
- E use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- F 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
- G use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

Long Term Overview: Year 3/4

Cycle		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
A	cs	Computer Systems and Networks BDEFG		Programming A: (Yr 3) Sequencing sounds ABCF	;		Programming A: (Yr4) Repetition in shapes ABCF
	IT		Creating Media: (Yr 3) Desktop publishing FG (Adohe Spark – Create teacher account and children access to save)		Data and Information: (Yr 3) Branching Databases (Link to Science)	F Creating Media: (Yr 3) Stop-frame Animation (Roman Theme) F	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F
В	CS	Computer Systems and Networks BDEFG		Programming B: (Yr 3) Events and actions in programs ABCF			Programming B: (Yr 4) Repetition in games (note changes in L1 slides) ABCF
	IT		Creating Media: (Yr 4) Photo editing EFG		Creating Media: (Yr 4) Audio editing EFG (Bandlab education on Chromebooks)	Data and Information: (Yr 4) Data Logging BF (Arduino Science Journal – data logger Android and IOS)	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F

Long Term Overview: Year 5/6

Cycle		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
A	CS	Computer Systems and Networks: (Yr 5) Sharing Information ABDFG		Programming A (Yr 5) Selection in physical computing (requires Crumble boards) ABDF Alternatives available (available to loan from SME)			Programming B - (Yr 6) Sensing (variables): Microbit ABDF Alternatives available
	IT		Creating Media: (Yr 5) Vector drawing F	,	Data and Information: (Yr 5) Flat file Databases E F	Creating Media: (Yr 6) 3D Modelling FG	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F
В	CS	Computer Systems and Networks: (Yr 6) Communication ADEF		Programming B: (Yr 5) Selection in Quizzes ABCF			Programming A: (Yr 5) Variables in games ABDFG
	IT		Creating Media: (Yr 5) Video Editing EFG		Creating Media: (Yr 6) Webpage creation EFG	Data and Information: (Yr 6) Spreadsheets F	
	DL	Privacy and Security F School AUP	Online Bullying (PSHE) F Self image and Identity F	Online Relationships F Online Reputation F (PSHE)	Health, Wellbeing and Lifestyle EF (PSHE)	Managing Online Information F	Copyright and Ownership F

Cycle	Unit	Issue	Options
A	Programming A (Crumbles)	No crumbles	Code.org - Course D lessons 10 - 14 and lesson 18 - lessons focus on selection or Microbit - Data handling unit https://microbit.org/lessons/data-handling-unit-summary/ (Microbits needed) OR Barefoot Computing: You're the Cyber Security Expert https://www.barefootcomputing.org/resources/you-re-the-cyber-security-expert (conditions in loops)
А	Programming B	No Micorbits	Lesson adaptations to work with them emulator at https://computing4schools.com/home-learning/
А	Vector Drawing	Not a 'Google School'	Vector drawing = drawing with shapes Microsoft alternatives: Powerpoint or Publisher
В	Webpage Creation	Not a 'Google School'	W3 Schools html building https://www.w3schools.com/html/tryit.asp?filename=tryhtml_basic_see tutorials here to support: https://www.w3schools.com/html/ Or Code Club - HTML https://projects.raspberrypi.org/en/codeclub Or Use ppt/sway or something similar to show links between pages