Nursery	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Getting to Know Each Other Children are taught to: • use the IWB to play maths and phonics games	Autumn Is All Around Children are taught to: • use the IWB to play maths and phonics games.	Passport Around the World Children are taught to: • play with remote controlled toys	Jurassic Journey Children are taught to: • use painting and graphics apps on the iPad to develop fine motor control	Under the Sea Children are taught to: use painting and graphics apps on the iPad to develop fine motor control	What's Up There? (Space) Children are taught to: • explore controlling the Bee Bots
Reception	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	The Wonderful World of Fairy Tales Children are taught to: • know and talk about sensible amounts of 'screen time' • listen to online safety stories	Food and Festivals Children are taught to: • have the opportunity to use a keyboard and mouse to develop fine motor control	Superheroes and People who Help Us Children are taught to: • record and play back sounds • manipulate objects on screen	Spring and New Life Children are taught to: use walkie talkies to communicate with each other and play back sounds	Animals Children are taught to: • control remote controlled toys • create a route for Bee Bots to follow	Water Children are taught to: take digital photos of their own learning and talk about what they can see record video clips of their own learning
Online Safety (Project Evolve)	Self-Image and Identity: I can recognise, online or offline, that anyone can say 'no' - 'please stop' - 'I'll tell' - 'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset. Online Bullying: I can describe ways that some people can be unkind online.	Managing Online Information: I can identify devices I could use to access information on the internet. Health, Well-being and Lifestyle: I can identify rules that help keep us safe and healthy in and beyond the home when using technology. I can give some simple examples of these rules	Privacy and Security: I can identify some simple examples of my personal information (e.g., name, address, birthday, age, location). I can describe who would be trustworthy to share this information with; I can explain why they are trusted.	Copyright and Ownership: I know that work I create belongs to me. I can name my work so that others know it belongs to me. Managing Online Information: I can talk about how to use the internet as a way of finding information	Online Relationships: I can recognise some ways in which the internet can be used to communicate. I can give examples of how I (might) use technology to communicate with people I know	Online Reputation: I can identify ways that I can put information on the internet. Online Bullying: I can offer examples of how I this can make others feel
Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	We are treasure hunters Children are taught to: understand what algorithms are, how they are implemented as programs on digital devices create and debug simple programs use logical reasoning to predict the behaviour of simple programs	We are tv chefs Children are taught to: understand what algorithms are use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school	We are digital artists Children are taught to: use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school	We are publishers Children are taught to: use technology purposefully to create, organise, store, manipulate and retrieve digital content 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 recognise common uses of information technology beyond school	We are rhythmic Children are taught to: use technology purposefully to create, organise, store, manipulate and retrieve digital content understand what algorithms are	We are detectives Children are taught to: 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

Online Safety (Project Evolve)	I can give simple examples of how to find information using digital technologies, e.g., search engines, voice activated searching. I know / understand that we can encounter a range of things online including things we like and don't like as well as things which are real or make believe / a joke. I know how to get help from a trusted adult if we see content that makes us feel sad, uncomfortable, worried or frightened.	Online Relationships: I can give examples of when I should ask permission to do something online and explain why this is important. I can use the internet with adult support to communicate with people I know (e.g., video call apps or services). Online Bullying: I can describe how to behave online in ways that do not upset others and can give examples.	I can recognize that there may be people online who could make someone feel sad, embarrassed or upset. If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust and how they can help. Online Reputation: I can recognise that information can stay online and could be copied. I can describe what information I should not put online without asking a trusted adult first.	Privacy and Security: I can explain how passwords are used to protect information, accounts and devices. I can recognise more detailed examples of information that is personal to someone (e.g., where someone lives and goes to school, family names). I can explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others. Online Relationships: I can explain why it is important to be considerate and kind to people online and to respect their choices. I can explain why things one person finds funny or sad online may not always be seen in the	I can save my work under a suitable title or name so that others know it belongs to me (e.g., filename, name on content). I can understand that work created by others does not belong to me even if I save a copy.	Health, Well-being and Lifestyle: I can explain rules to keep myself safe when using technology both in and beyond the home. Copyright and Ownership I can explain why work I create using technology belongs to me. I can say why it belongs to me (e.g., 'I designed it' or 'I filmed it').
Resources	Software: Blue-Bot app (optional, alternatives: programming interface for alternative toys) Hardware: Blue-Bot (alternatives: Cubetto, Bee-Bot, Roamer Too, STEM Robot Mouse). If robot toys are not available the Blue-Bot app or the Scratch Bee-Bot emulator can be used instead.	Software: Camera and iMovie apps on the iPad (alternatives: video editing software such as WeVideo or Microsoft Photos) Hardware: iPads, ideally with tripods and clamps (alternatives: desktop/laptop computers and cameras with movie mode, or Android tablets)	Software: Brushes Redux and Autodesk SketchBook (alternatives: Microsoft Paint, Paint 3D, PaintZ for Chromebook) Hardware: iPads (alternatives: laptop/desktop computers, Android tablets), styluses (optional)	same way by others. Software: Book Creator, Google Photos (alternatives: Google Slides, Microsoft PowerPoint) Hardware: iPads (alternatives: laptop/desktop/Chromebook computers)	Software: ScratchJr app and GarageBand (alternatives: Scratch, Audacity, LMMS, Soundtrap) Hardware: iPads (alternatives: laptop/desktop/Chromebook computers)	Software: Popplet, Google Forms, Google Sheets (alternatives: FreeMind, Bubbl.us, MindMeister, Microsoft Forms, Microsoft Excel) Hardware: iPads (alternatives: laptop/desktop computers, Chromebooks or Android tablets)
Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	We are photographers Children are taught to: use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school	We are researchers Children are taught to: • use technology purposefully to create, organise, store, manipulate and retrieve digital content • 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	We are animators Children are taught to: 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 recognise common uses of information technology beyond school	We are games testers Children are 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	We are zoologists Children are taught to: • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school	We are astronauts Children are 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
Online Safety (Project Evolve)	Health, Well-being and Lifestyle: I can explain simple guidance for using technology in different environments and settings e.g., accessing online technologies in public places and the home environment.	Managing Online Information: I can use simple keywords in search engines I can demonstrate how to navigate a simple webpage to get to information I need (e.g., home, forward, back buttons; links, tabs	Copyright and Ownership: I can recognise that content on the internet may belong to other people. I can describe why other people's work belongs to them.	Online Relationships I can describe different way to ask for, give, or deny my permission online and can identify who can help me if I am not sure. I can explain why I have a right to say 'no' or 'I will have to ask	Self-Image and Identity I can explain how other people may look and act differently online and offline I can give examples of issues online that might make someone feel sad, worried, uncomfortable	Online Reputation I can describe how anyone's online information could be seen by others. I know who to talk to if something has been put online without consent or if it is incorrect.

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	I can say how those rules/guides	I can explain what voice activated	Online Relationships	I can explain who can help me if I	I can give examples of how they	
	can help anyone accessing online	searching is and how it might be	I can give examples of how someone	feel under pressure to agree to	might get help.	
	technologies.	used, and know it is not a real	might use technology to	something I am unsure about or		
		person (e.g., Alexa, Google Now,	communicate with others they don't	don't want to do.	Privacy and Security	
	Online Bullying	Siri).	also know offline and explain why	I can identify who can help me if	I can explain how passwords can	
	I can explain what bullying is, how	I can explain the difference	this might be risky (e.g., email,	something happens online without	be used to protect information,	
	people may bully others and how	between things that are	online gaming, a pen-pal in another	my consent.	accounts and devices.	
	bullying can make someone feel.	imaginary, 'made up' or 'make	school/country).	I can explain how it may make	I can explain and give examples of	
	I can explain why anyone who	believe' and things that are 'true'	I can explain who I should ask before	others feel if I do not ask their	what is meant by 'private' and	
	experiences bullying is not to	or 'real'.	sharing things about myself or	permission or ignore their answers	'keeping things private'.	
	blame. I can talk about how	I can explain why some	others online.	before sharing something about	I can describe and explain some	
	anyone experiencing bullying	information I find online may not		them online.	rules for keeping personal	
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	be real or true.		I can explain why I should always	information private (e.g., creating	
				ask a trusted adult before clicking	and protecting passwords).	
				'y's', 'agree' or 'accept' online.	I can explain how some people	
				y 5) agree or accept crimics	may have devices in their homes	
		Online Reputation			connected to the internet and	
		I can explain how information put			give examples (e.g., lights, fridges,	
		online about someone can last for			toys, televisions).	
		a long time.			toys, televisions,	
Resources					Software: Google Sheets, Google	
	Software: Camera and Photos	Software: Popplet, Google Slides,	Software: Stop Motion Studio		Docs, Google My Maps, Google	Software: ScratchJr (alternative:
				Software: Scratch, FixTheFactory	Slides, Camera and Photos apps	·
	apps, Snapseed (alternatives: Pixlr,	Google custom search	(alternatives: iStopMotion, Zu3D,	(alternative: Blockly Games)	(alternatives: Microsoft	Scratch)
	Windows Photos)	(alternatives: FreeMind, Microsoft	Stop Motion Animator)		Excel/Word/PowerPoint,	
	Handware Dada (alternatives	PowerPoint, Keynote)	Handware Dade (alternatives		Windows Maps, Microsoft	Handware Dade (alternatives
	Hardware: iPads (alternatives:	Handware Dada (altamatica)	Hardware: iPads (alternatives:	Hardware: iPads/Android tablets,	Photos)	Hardware: iPads (alternatives:
	Android tablets,	Hardware: iPads (alternatives:	Android tablets,	laptops/desktop/Chromebook		Android tablets,
	laptop/desktop/Chromebook	desktop/laptop/Chromebook computers or Android tablets)	laptop/desktop/Chromebook	computers for Scratch	Hardware: iPads (alternatives:	laptop/desktop/Chromebook
	computers and digital cameras)	computers of Android tablets)	computers and digital cameras)		laptop/desktop/Chromebook	computers, Bee-Bots, Blue-Bots)
					l labrob/desktob/chilomebook	
					computers and digital cameras)	
Year 3	Autumn 1	Autumn 2	Spring 1	Spring 2	computers and digital cameras) Summer 1	Summer 2
Year 3	We are Programmers	We are bug fixers	We are Presenters	We are who we are	computers and digital cameras) Summer 1 We are co-authors	We are opinion pollsters
Year 3					Summer 1 We are co-authors (Communication/	
Year 3	We are Programmers (Programming)	We are bug fixers (Computational Thinking)	We are Presenters (Creativity)	We are who we are (Computer Networks)	computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration)	We are opinion pollsters (Productivity)
Year 3	We are Programmers (Programming) Children are taught to:	We are bug fixers (Computational Thinking) Children are taught to:	We are Presenters (Creativity) Children are taught to:	We are who we are (Computer Networks) Children are taught to:	computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to:	We are opinion pollsters (Productivity) Children are taught to:
Year 3	We are Programmers (Programming) Children are taught to: • design, write and debug	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug	We are Presenters (Creativity) Children are taught to: use sequence, selection, and	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety	computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: understand computer networks	We are opinion pollsters (Productivity) Children are taught to: • select, use and combine a
Year 3	We are Programmers (Programming) Children are taught to: design, write and debug programs that accomplish	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug programs that accomplish	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create	computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • understand computer networks including the internet; how they	We are opinion pollsters (Productivity) Children are taught to: • select, use and combine a variety of software (including
Year 3	We are Programmers (Programming) Children are taught to: design, write and debug programs that accomplish specific goals, including	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug programs that accomplish specific goals, including	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems	computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • understand computer networks including the internet; how they can provide multiple services,	We are opinion pollsters (Productivity) Children are taught to: • select, use and combine a variety of software (including internet services) on a range of
Year 3	We are Programmers (Programming) Children are taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug programs that accomplish specific goals, including controlling or simulating	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish	Computers and digital cameras) Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: understand computer networks including the internet; how they can provide multiple services, such as the world wide web;	We are opinion pollsters (Productivity) Children are taught to: • select, use and combine a variety of software (including internet services) on a range of digital devices to design and
Year 3	We are Programmers (Programming) Children are taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer	We are opinion pollsters (Productivity) Children are taught to: • 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,
Year 3	We are Programmers (Programming) Children are taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller	We are bug fixers (Computational Thinking) Children are taught to: • design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them	We are Presenters (Creativity) Children are taught to: • use sequence, selection, and repetition in programs; work with variables and various forms of input and output • select, use and combine a variety of software on a range of digital	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • 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	We are opinion pollsters (Productivity) Children are taught to: • 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
Year 3	We are Programmers (Programming) Children are 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	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software on a range of digital devices to design and create a	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: 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	We are opinion pollsters (Productivity) Children are taught to: • 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,
Year 3	We are Programmers (Programming) Children are 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	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • 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	We are opinion pollsters (Productivity) Children are taught to: • 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,
Year 3	We are Programmers (Programming) Children are 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	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: • use sequence, selection, and repetition in programs; work with variables and various forms of input and output • select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content that accomplish given	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • 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	We are opinion pollsters (Productivity) Children are taught to: • 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
Year 3	We are Programmers (Programming) Children are 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	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting,	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: 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,	We are opinion pollsters (Productivity) Children are taught to: • 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,
Year 3	We are Programmers (Programming) Children are 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	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software 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	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: 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	We are opinion pollsters (Productivity) Children are taught to: • 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
Year 3	We are Programmers (Programming) Children are 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 select, use and combine a	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software 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	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: • 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	We are opinion pollsters (Productivity) Children are taught to: • 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
Year 3	We are Programmers (Programming) Children are 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 select, use and combine a variety of software (including	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: • use sequence, selection, and repetition in programs; work with variables and various forms of input and output • select, use and combine a variety of software 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,	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: 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 use technology safely,	We are opinion pollsters (Productivity) Children are taught to: • 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
Year 3	We are Programmers (Programming) Children are 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 select, use and combine a variety of software (including internet services) on a range of	We are bug fixers (Computational Thinking) Children are 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	We are Presenters (Creativity) Children are taught to: use sequence, selection, and repetition in programs; work with variables and various forms of input and output select, use and combine a variety of software 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;	We are who we are (Computer Networks) Children are taught to: • select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including presenting information • use technology safely,	Summer 1 We are co-authors (Communication/ Collaboration) Children are taught to: 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 use technology safely, respectfully and responsibly;	We are opinion pollsters (Productivity) Children are taught to: • 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
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Online Safety	Online Relationships:	Online Bullying:	Self-Image and Identity	Managing Online Information	Online Reputation:	Managing Online Information:
(Project Evolve)	I can describe ways people who	I can describe appropriate ways to	I can explain what is meant by the	I can demonstrate how to use key	I can explain how to search for	I can explain the difference
	have similar likes and interests can	behave towards other people	term 'identity'.	phrases in search engines to gather	information about others online	between a 'belief', an 'opinion'
	get together online.	online and why this is important.	I can explain how people can	accurate information online.	I can give examples of what	and a 'fact' and can give examples
	I can explain what it means to	I can give examples of how	represent themselves in different	I can explain what autocomplete is	anyone may or may not be willing	of how and where they might be
	'know someone' online and why	bullying behaviour could appear	ways online.	and how to choose the best	to share about themselves online.	shared online, e.g., in videos,
	this might be different from	online and how someone can get	I can explain ways in which someone	suggestion.	I can explain the need to be	memes, posts, new stories etc.
	knowing someone offline.	support	might change their identity	I can explain how the internet can	careful before sharing anything	I can explain that not all opinions
	I can explain what is meant by		depending on what they are doing	be used to sell and buy things.	personal.	shared may be accepted as true
	'trusting someone online', why this		online (e.g., gaming; using an avatar;		I can explain who someone can	or fair by others (e.g., monsters
	is different from 'liking someone		social media) and why.		ask if they are unsure about	under the bed).
	online', and why it is important to				putting something online.	I can describe and demonstrate
	be careful about who to trust					how we can get help from a
	online including what information					trusted adult if we see content
	and content they are trusted with.					that makes us feel sad,
	I can explain why someone may			Privacy and Security	Health, Well-being and Lifestyle	uncomfortable, worried or
	change their mind about trusting			I can describe simple strategies for	I can explain why spending too	frightened.
	anyone with something if they feel			creating and keeping passwords	much time using technology can	
	nervous, uncomfortable or			private.	sometimes have a negative	Copyright and Ownership
	worried.			I can give reasons why someone	impact on anyone;	I can explain why copying
	I can explain how someone's			should only share information with	I can give some examples of both	someone else's work from the
	feelings can be hurt by what is said			people they choose to and can	positive and negative activities	internet without permission isn't
	or written online.			trust.	where it is easy to spend a lot of	fair and can explain what
	I can explain the importance of			I can explain that if they are not	time engaged.	problems this might cause.
	giving and gaining permission			sure or feel pressured then they	I can explain why some online	
	before sharing things online; how			should tell a trusted adult.	activities have age restrictions,	
	the principles of sharing online is			I can describe how connected	why it is important to follow them	
	the same as sharing offline (e.g.,			devices can collect and share	and know who I can talk to if	
	sharing images and videos).			anyone's information with others.	others pressure me to watch or	
					do something online that makes	
					me feel uncomfortable (e.g., age	
Resources	Software: Scratch (alternative:	Software: Scratch (alternative:	Software: Popplet, iMovie	Software: Google Slides	restricted gaming or websites) Software: Google Sites, Popplet	Software: Google
Resources	ScratchJr)	Snap!), screen recorder software	(alternatives: Camera app, Microsoft	(alternative: Microsoft	Software. Google Sites, 1 oppiet	Forms/Sheets/Slides/Drive
	Scrutchiny	Shap:// Screen recorder software	Photos, Adobe Premiere Elements)	PowerPoint), Audacity	Hardware: Laptop/desktop	(alternatives: Microsoft
	Hardware:	Hardware:	Thotas, raduct remiere Elements,	(alternatives: iPad voice recorder,	computers (alternatives: iPads or	equivalents, j2vote, j2data and
	Laptop/desktop/Chromebook	Laptop/desktop/Chromebook	Hardware: iPad, green screen	other audio recorders)	Chromebooks)	j2office)
	computers or tablets, cameras and	computers or tablets,	background (with good lighting),	other addio recorders,	Chromebooksy	Jeonice
	microphones (if needed)	microphones (if needed)	tripod and iPad mount	Hardware:		Hardware:
	interophones (in needed)	Interophones (in necucu)	tripod drid ir dd modrit	Laptop/desktop/Chromebook		Laptop/desktop/Chromebook
				computers, or iPads/Android		computers and iPads/Android
				tablets		tablets (optional)
Year 4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	We are software developers	We are bloggers	We are meteorologists	We are musicians	We are artists	We are makers
	Children are towaht to	Children are to rebt to	Children are towaht to	Children are taught to	Children are tought to	Children are tought to
	Children are taught to:	Children are taught to:	Children are taught to:	Children are taught to:	Children are taught to:	Children are taught to:
	design, write and debug	understand computer networks	work with variables and various	• use sequence and repetition;	use sequence, selection and	design, write and debug
	programs that accomplish	including the Internet; how they	forms of input and output.	work with various forms of input	repetition in programs; work	programs that accomplish
	specific goals	can provide multiple services,	use logical reasoning to explain	and output.	with variables and various forms	specific goals
	• use sequence, selection, and	such as the World Wide Web;	how some simple algorithms work	be discerning in evaluating digital	of output	• use sequence, selection and
	repetition in programs; work	and the opportunities they offer	• use search technologies	content.	• select, use and combine a	repetition in programs; work
	with variables and various forms	for communication and	effectively, appreciate how results	• select, use and combine a variety	variety of software (including	with variables and various forms
		collaboration	are selected and ranked, and be	of software on a range of digital	Internet services) on a range of	of input and output
	of input and output				1	
	use logical reasoning to explain	• use a variety of software	discerning in evaluating digital	devices to design and create a	digital devices to design and	use logical reasoning to explain
	use logical reasoning to explain how some simple algorithms	• use a variety of software (including Internet services) on	discerning in evaluating digital content.	range of content that	create a range of content that	how some simple algorithms
	use logical reasoning to explain how some simple algorithms work and to detect and correct	 use a variety of software (including Internet services) on a range of digital devices to 	discerning in evaluating digital content. • select, use and combine a variety	range of content that accomplishes given goals		
	use logical reasoning to explain how some simple algorithms	• use a variety of software (including Internet services) on	discerning in evaluating digital content.	range of content that	create a range of content that	how some simple algorithms

		content that accomplish given goals use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour	devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data	recognise acceptable/unacceptable behaviour		
Online Safety (Project Evolve)	Health, Well-being and Lifestyle I can explain how using technology can be a distraction from other things, in both a positive and negative way. I can identify times or situations when someone may need to limit the amount of time they use technology e.g. I can suggest strategies to help with limiting this time. Online Relationships I can describe strategies for safe and fun experiences in a range of online social environments (e.g., livestreaming, gaming platforms). I can give examples of how to be respectful to others online and describe how to recognize healthy and unhealthy online behaviours.	Privacy and Security I can describe strategies for keeping personal information private, depending on context. I can explain that internet use is never fully private and is monitored, e.g., adult supervision I can describe how some online services may seek consent to store information about me; I know how to respond appropriately and who I can ask if I am not sure. I know what the digital age of consent is and the impact this has on online services asking for consent	I can analyse information to make a judgement about probable accuracy and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others. I can describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy (e.g., social media, image sites, video sites). I can describe some of the methods used to encourage people to buy things online (e.g., advertising offers; in-app purchases, pop-ups) and can recognise some of these when they appear online. I can explain why lots of people sharing the same opinions or beliefs online do not make those opinions or beliefs true. I can explain that technology can be designed to act like or impersonate living things (e.g., bots) and describe what the benefits and the risks might be I can explain what is meant by fake news e.g., why some people will create stories or alter photographs and put them online to pretend something is true when it isn't	Online Reputation I can describe how to find out information about others by searching online. I can explain ways that some of the information about anyone online could have been created, copied or shared by others	Copyright and Ownership When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it. Online Bullying: I can recognise when someone is upset, hurt or angry online. I can describe ways people can be bullied through a range of media (e.g., image, video, text, chat). I can explain why people need to think carefully about how content they post might affect others, their feelings and how it may affect how others feel about them (their reputation)	Self-Image and Identity I can explain how my online identity can be different to my offline identity. I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them. I can explain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this Copyright and Ownership I can give some simple examples of content which I must not use without permission from the owner, e.g., videos, music, images
Resources	Software: Scratch (alternative: Snap!) Hardware: Laptop/desktop/Chromebook computers or tablets, microphones (optional)	Software: Blogging tool such as WordPress or Blogger (alternative: Seesaw), Audacity, iMovie, Camera app, Snapseed Hardware: Laptop/desktop computers, digital cameras, audio recorders/tablets	Software: Google Sheets and Slides (alternatives: Microsoft Excel and PowerPoint) Hardware: Laptop/desktop/Chromebook computers or tablets, Smart home weather station or other equipment for measuring for weather	Software: GarageBand Hardware: iPads, headphones, musical instruments such as MIDI keyboards (optional)	Software: Inkscape (alternatives: Vectornator X for the iPad or Google Draw on Chromebooks) and Scratch (alternative: Logo) Hardware: Laptop/desktop/Chromebook computers or tablets	Software: Microsoft MakeCode for the micro:bit (online) Hardware: Laptop/desktop computers, BBC micro:bits (with USB cables and battery packs)

Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	We are adventure gamers	We are architects	We are web developers	We are cryptographers	We are game developers	We are VR designers
	Children are taught to: use search technologies effectively use a variety of software (including Internet services) on a range of digital devices to design and create content that accomplish given goals, including presenting information use technology safely, respectfully and responsibly	Children are taught to: 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 information	Children are taught to: 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 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 be discerning in evaluating digital	Children are taught to: • 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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Children are taught to: • design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems and solving 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	 Children are 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 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 information
Online Safety (Project Evolve)	Copyright and Ownership: I can assess and justify when it is acceptable to use the work of others. Online Relationships: I can give examples of technology-specific forms of communication (e.g., emojis, memes and GIFS). I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognize that this is not my / our fault. I can describe some of the ways people may be involved in online communities and describe how they might collaborate constructively with others and make positive contributions (e.g., gaming communities or social media groups). I can explain how someone can get help if they are having problems and identify when to tell a trusted adult. I can demonstrate how to support others (including those who are	Managing Online Information I can explain the benefits and limitations of using different types of search technologies e.g., voice-activation search engine. I can explain how some technology can limit the information I am presented with. I can explain what is meant by 'being sceptical'; I can give examples of when and why it is important to be 'sceptical'. I can evaluate digital content and can explain how to make choices about what is trustworthy e.g., differentiating between adverts and search results. I can explain key concepts including: information, reviews, fact, opinion, belief, validity, reliability and evidence. Self-Image and Identity I can explain how identity online can be copied, modified or altered. I can demonstrate how to make responsible choices about having an online identity, depending on context	Managing Online Information I can identify ways the internet can draw us to information for different agendas, e.g., website notifications, pop-ups, targeted ads. I can describe ways of identifying when online content has been commercially sponsored or boosted (e.g., by commercial companies or by vloggers, content creators, influencers). I can explain what is meant by the term 'stereotype', how 'stereotypes' are amplified and reinforced online, and why accepting 'stereotypes' may influence how people think about others. I can describe how fake news may affect someone's emotions and behaviour and explain why this may be harmful. I can explain what is meant by a 'hoax'. I can explain why someone would need to think carefully before they share.	I can recognise online bullying can be different to bullying in the physical world and can describe some of those differences. I can describe how what one person perceives as playful joking and teasing (including 'banter') might be experienced by others as bullying. I can explain how anyone can get help if they are being bullied online and identify when to tell a trusted adult. I can identify a range of ways to report concerns and access support both in school and at home about online bullying. I can explain how to block abusive users. I can describe the helpline services which can help people experiencing bullying, and how to access them (e.g., Childline or The Mix).	Copyright and Ownership I can give examples of content that is permitted to be reused and know how this content can be found online. Privacy and Security I can explain what a strong password is and demonstrate how to create one. I can explain how many free apps or services may read and share private information (e.g., friends, contacts, likes, images, videos, voice, messages, geolocation) with others. I can explain what app permissions are and can give some examples.	Online Reputation I can search for information about an individual online and summarise the information found. I can describe ways that information about anyone online can be used by others to make judgements about an individual and why these may be incorrect. Health, Well-being and Lifestyle I can describe ways technology can affect health and wellbeing both positively (e.g., mindfulness apps) and negatively. I can describe some strategies, tips or advice to promote health and well-being with regards to technology. I recognise the benefits and risks of accessing information about health and well-being online and how we should balance this with talking to trusted adults and professionals. I can explain how and why some apps and games may request or take payment for additional content (e.g., in-app purchases, loot boxes) and explain the

importance of seeking permission

having difficulties online).

						from a trusted adult before purchasing.
Resources	Software: Google Slides (alternative: Microsoft PowerPoint), voice recorder Hardware: Laptop/desktop/Chromebook computers or iPads (reduced functionality)	Software: Trimble SketchUp (alternatives: CoSpaces and Minecraft Education Edition), a screen recorder Hardware: Laptop/desktop/Chromebook computers or tablets	Software: Google Chrome, Google Sites Hardware: Laptop/desktop/Chromebook computers or tablets	Software: Scratch Hardware: Laptop/desktop/Chromebook computers or tablets	Software: Scratch (alternatives: Snap! or Kodu) Hardware: Laptop/desktop/Chromebook computers or tablets, microphones (optional)	Software: Google Street View (Google Maps app), GarageBand (alternative: Voice Recorder), CoSpaces Hardware: iPads/tablets (alternatives: smartphones, Google Cardboard)
Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	We are toy makers Children are taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems use sequence, selection, and repetition in programs; work with 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	We are computational thinkers Children are taught to: design, write and debug programs that accomplish specific goals 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	We are publishers Children are taught to: understand computer networks including the Internet 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	Children are taught to: understand the opportunities computer networks offer for communication and collaboration use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content	We are advertisers Children are taught to: 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	We are Al developers Children are 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 and combine a variety of software 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
Online Safety (Project Evolve)	Health, Well-being and Lifestyle I can describe common systems that regulate age related content (e.g., PEGI, BBFC, parental warnings) and describe their purpose. I recognise and can discuss the pressures that technology can place on someone and how / when they could manage this. I can recognise features of persuasive design and how they are used to keep users engaged (current and future use). I can assess and action different strategies to limit the impact of technology on health (e.g., night- shift mode, regular breaks, correct posture, sleep, diet and exercise).	Privacy and Security I can describe effective ways people can manage passwords (e.g., storing them securely or saving them in browser). I can explain what to do if a password is shared, lost or stolen. I can describe how and why people should keep their software and apps up to date, e.g., auto updates. I can describe simple ways to increase privacy on apps and services that provide privacy settings. I can describe ways in which some online content targets people to gain money or information illegally;	Managing Online Information I can explain how search engines work and how results are selected and ranked. I can explain how to use search technologies effectively. I can describe how some online information can be opinion and can offer examples I can explain how and why some people may present 'opinions' as 'facts'; why the popularity of an opinion or the personalities of those promoting it does not necessarily make it true, fair or perhaps even legal.	Managing Online Information I can define the terms 'influence', 'manipulation' and 'persuasion' and explain how someone might encounter these online (e.g., advertising and 'ad targeting' and targeting for fake news). I understand the concept of persuasive design and how it can be used to influence peoples' choices I can demonstrate how to analyse and evaluate the validity of 'facts' and information and I can explain why using these strategies are important I can explain how companies and news providers target people with online news stories they are more likely to engage with and how to recognise this.	Managing Online Information I can describe the difference between online misinformation and dis-information. I can explain why information that is on a large number of sites may still be inaccurate or untrue. I can assess how this might happen (e.g., the sharing of misinformation or disinformation). I can identify, flag and report inappropriate content. Self-Image and Identity I can identify and critically evaluate online content relating to gender, race, religion, disability, culture and other groups, and explain why It is	Online Relationships I can explain how sharing something online may have an impact either positively or negatively. I can describe how to be kind and show respect for others online including the importance of respecting boundaries regarding what is shared about them online and how to support them if others do not. I can describe how things shared privately online can have unintended consequences for others (e.g., screengrabs). I can explain that taking or sharing inappropriate images of someone (e.g., embarrassing images), even if they say it is okay, may have an impact for the sharer and others;

	Online Reputation	I can describe strategies to help	Online Bullving	Copyright and Ownership	important to challenge and reject	and who can help if someone is
	I can explain the ways in which	me identify such content (e.g.,	I can describe how to capture	I can demonstrate the use of	inappropriate representations	worried about this
	anyone can develop a positive	scams, phishing).	bullying content as evidence (e.g.,	search tools to find and access	online.	
	online reputation.	I know that online services have	screengrab, URL, profile) to share	online content which can be	I can describe issues online that	
	I can explain strategies anyone can	terms and conditions that govern	with others who can help me.	reused by others. I can	could make anyone feel sad,	
	use to protect their 'digital	their use.		demonstrate how to make	worried, uncomfortable or	
	personality' and online reputation,		I can explain how someone would	references to and acknowledge	frightened	
	including de		report online bullying in different	sources I have used from the	I know and can give examples of	
			contexts.	internet.	how to get help, both on and	
					offline.	
					I can explain the importance of	
					asking until I get the help needed.	
Resources	Software: MakeCode (alternative:	Software: Google Maps, Scratch	Software: Google Docs (alternatives:	Software: School blogging platform	Software: iMovie (alternatives:	Software: Scratch (Machine
	Scratch)	(alternative: Snap!)	Book Creator, Microsoft Word),	(such as WordPress), Padlet	Microsoft Videos and WeVideo)	Learning for Kids version),
	l		Microsoft Publisher	l		Audacity, Google Chrome
	Hardware:	Hardware:		Hardware:	Hardware:	
	Laptop/desktop/Chromebook	Laptop/desktop/Chromebook	Hardware: Laptop/desktop	Laptop/desktop/Chromebook	Laptop/desktop/Chromebook	Hardware:
	computers or tablets, BBC	computers or iPads, unplugged	computers, digital cameras, iPads	computers or iPads	computers, digital	Laptop/desktop/Chromebook
	micro:bits	resources			cameras/tablets	computers, iPads, smart speaker
						(Google Home/Amazon Echo)
						optional