A progression in <u>Co</u>	mputing from R	eception to Year 7	Active Respect	Lower Park School
EYFS	Key Stage one	Lower Key Stage two	Upper Key Stage two	Key Stage three

Information Technology Word Processing	 I know how to play on a touch screen game and use computers/keyboards/mouse in role play I know how to type letters with increasing confidence using a keyboard and tablet. I know how to dictate short, clear sentences into a digital device. 	 I know how to confidently type words quickly and correctly on a digital device. I know how to use the space bar to make space and delete to delete letters/ words I know how to make a new line using enter/return I know how to dictate into a digital device more accurately and with punctuation. I know how to use the space bar only once between words and use touch to navigate to words letter to edit I know how to use copy and paste images and text I know how to use caps locks for capital letters. I know how to add images alongside text in a word-processed 	 I know how to use index fingers on keyboard home keys (f/j), use left fingers for a/ s/d/f/g, and use right fingers for h/j/k/l I know how to edit the style and effect of my text and images to make my document more engaging and eye- catching. For example, borders and shadows. I know how to use cut, copy and paste to quickly duplicate and organise text. I know how to use cut, copy and paste to quickly duplicate and organise text. I know how to combine digital images from different sources, objects, and text to make a final piece of a variety of tasks: posters, documents, eBooks, scripts, leaflets. I know how to confidently and regularly use text shortcuts such as cut, copy and paste and delete to 	 I know how to apply other useful effects to my documents such as hyperlinks. I know how to import sounds to accompany and enhance the text in my document. I know how to organise and reorganise text on screen to suit a purpose I know how to confidently choose the best application to demonstrate my learning. I know how to format text to suit a purpose. I know how to publish my documents online regularly and discuss the audience and purpose of my content. 	undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users
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	document. • I know how to dictate longer passages into a digital device with accurate punctuation.	organise text I know how to use font sizes appropriately for audience and purpose. Use spell check and thesaurus including through Siri and other AI technology 			
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Information Technology Data Handling	 I know how to identify a chart. I know how to sort physical objects, take a picture and discuss what I have done. I know how to present simple data on a digital device. 	 I know how to sort images or text into two or more categories on a digital device. I know how to collect data on a topic. I know how to 	 I know how to create my own sorting diagram and complete a data handling activity with it using images and text. I know how to start to input simple data into a 	 I know how to create and publish my own online questionnaire and analyse the results. I know how to use simple formulae to solve calculations including =sum 	undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to
		 create a tally chart and pictogram. I know how to record myself explaining what I have done and what it shows me. 	 spreadsheet. I know how to create a feelings chart exploring a story or character's feelings. I know how to 	 and other statistical functions I know how to edit and format difference cells in a spreadsheet. I know how to write 	achieve challenging goals, including collecting and analysing data and meeting the needs of known users
		I know how to	create my own online multiple-choice questionnaire. • I know how to input	spreadsheet formula tosolve more challengingmaths problems.I know how to	KIOWI USEIS
		sort digital objects into a range of charts such as Venn diagrams, carroll diagrams and bar charts using different apps and	data into a spreadsheet and export the data in a variety of ways: charts, bar charts, pie charts.	create and publish my own online quiz with a range of media (images and video)	
		software. I know how to orally record myself explaining what the data shows me.	• I understand how data is collected.		
		• I know how to create a branching database using questions			

Information	• I know how to record my voice over	I know how to	I know how to	I know how to	undertake creative
Technology	a picture.	add labels to an image	create an interactive comic	collaborate with peers using	projects that involve
Presentation, Web Design,	I know how to create a simple	I know how to	with sounds, formatted text	online tools, e.g. blogs,	selecting, using, and
and eBook	digital collage.	order images to create a	and video.	Google Drive, Office 365	combining multiple
Creation	I know how to move and resize	simple storyboard.	I know how to	I know how to	applications,
	images with my fingers or mouse.	I know how to	annotate an image with	create and export an	preferably across a
	indges with my ingers of mouse.	create a simple spider	videos	interactive presentation	range of devices, to
		diagram.	I know how to	including a variety of media,	achieve challenging
		I know how to	create a simple web page.	animations, transitions and	goals, including
		sequence a series of	I know how to	other effects.	collecting and
		pictures to explain my	design a simple app	I know how to	analysing data and
		understanding of a	prototype.	create an interactive guide	meeting the needs of
		topic.	I know how to	to a image by embedding	known users
		I know how to	create a simple digital	digital content and	
		add voice labels to an	timeline/mindmap	publishing it online.	
		image.	I know how to	I know how to	
		I know how to	create an interactive quiz	create a webpage and	
		add a voice recording to	eBook introducing	embed video.	
		a storyboard.	hyperlinks.	I know how to	
		I know how to	I know how to	create a web site which	
		add speech bubbles to	create an eBook with text,	includes a variety of media.	
		an image to show what a	images and sound.	I know how to	
		character thinks.	I know how to	design an app prototype	
		I know how to	create a presentation	that links multimedia pages	
		import images to a	demonstrating my	together with	
		project from the web	understanding with a range	hyperlinks.	
		and camera roll	of	I know how to	
			media.	choose applications to	
			I know how to	communicate to a specific	
			create a digital	 audience. I know how to 	
			timeline/mindmap and include different media -		
			sound and video.	evaluate my own content	
				and consider ways to	
				improvements.	

Information	• I know how to animate a simple	I know how to	I know how to	I know how to	undertake creative
Technology	image to speak in role	add filters and stickers	create animations of faces to	record animations of	projects that involve
Animation	I know how to create a simple	to enhance an animation	speak in role with more life-	different characters and edit	selecting, using, and
	animation to tell a story including more than	of a character.	like realistic outcomes.	them together to create an	combining multiple
	one character.	I know how to	I know how to	interview.	applications,
		create an animation to	improve stop motion	 I know how to add 	preferably across a
		tell a story with more	animation clips with	green screen effects to a	range of devices, to
		than one scene.	techniques like onion	stop motion animation.	achieve challenging
		 I know how to 	skinning.	I know how to	goals, including
		add my own pictures to	 I know how to use 	create flip book animation	collecting and
		my story animation.	animation tools in	using digital drawings and	analysing data and
		 I know how to 	presenting software to	export as a Gif or	meeting the needs of
		create multiple	create simple animations.	video	known users
		animations of an image	 I know how to take 	I know how to mix	
		and edit these together.	multiple animations of a	animations and videos	
		 I know how to 	character I have created and	recordings of myself to	
		create a simple stop	edit them together for a	create video interviews.	
		motion animation.	longer video.	 I know how to plan, 	
		 I know how to 	 I know how to use 	script and create a 3D	
		explain how an	software to create a 3D	animation to explain a	
		animation/flip book	animated story.	concept or tell a story.	
		works	 I know how to use 	I know how to	
			line draw tool to create	choose and create different	
			animations.	types of animations to best	
				explain my learning.	

Information	• I know the difference between a	I know how to	I know how to	I know how to use	undertake creative
Technology	photography and video.	record a film using the	sequence clips of mixed	cutaway and split screen	projects that involve
Video Creation	• I know how to record a short film	camera app.	media in a timeline and	tools in iMovie.	selecting, using, and
	using the camera	I know how to	record a voiceover	I know how to	combining multiple
	• I know how to record and play a film	select images and record	I know how to trim	evaluate and improve the	applications,
	I know how to watch films back	a voiceover.	and cut film clips and add	best video tools to best	preferably across a
		 I know how to 	titles and transitions	explain my	range of devices, to
		highlight and zoom into	I know how to	understanding.	achieve challenging
		images as I record.	independently create a	I know how to	goals, including
			green screen clip.	further improve green	collecting and
			I know how to	screen clips using crop and	analysing data and
			create my own movie trailer.	resize and explore more	meeting the needs of
		 I know how to 	I know how to add	creative ways to use the	known users
		write and record a script	music and sound effects to	tool - wearing green clothes	
		using a teleprompter	my films	and the masking tool.	
		tool.	I know how to add	I know how to use	
		I know how to	animated titles and	the green screen masking	
		use tools to add effects	transitions	tool with more than one	
		to a video	I know how to add	character.	
		I know how to	simple subtitles to a video	 I know how to use 	
		begin to use green	clip.	picture in picture tools in	
		screen techniques with	I know how to use	iMovie.	
		support	confidently use green screen	I know how to add	
			adding animated	animated subtitles to my	
			backgrounds.	film to further enhance my	
				creation.	
				I know how to	
				create videos using a range	
				of media - green screen,	
				animations, film	
				and image.	

Information Technology Photography	 I know how to take a photograph I know how to take a photograph and use it in an app 	• I know how to edit a photo with simple tools	I know how to confidently take and manipulate photos	• I know how to make a digital photo using camera	create, reuse, revise and repurpose digital
and Digital Art	I know how to use a painting app	I know how to	manipulate photos I know how to	settings • I know how	artefacts for a given audience, with
	and explore the paint and brush tools	use a paint/drawing app	create a digital image using a	to enhance digital photos	attention to
		to create a digital image	range of tools, pens, brushes	and images using crop,	trustworthiness, design
		I know how to	and	brightness and resize	and usability
		begin to cut out an	effects	tools	
		image to layer on	I know how to	I know how	
		another image.	create transparent images	to link and explain how to	
			with Instant Alpha	photoshop images and how	
			I know how to	this is used in the media	
			enhance digital images and	I know how	
		I know how to	photographs using crop,	to edit a picture to remove	
		edit a photo (crop,	brightness, contrast & resize	items, add backgrounds,	
		filters, mark up etc)	I know how to	merge 2 photos	
		I know how to	manipulate shapes to create	I know how	
		select and use tools to	digital art.	to evaluate and discuss	
		create digital imagery -	I know how to draw	images explaining effects	
		controlling the pen	a series of images and	and filters that have	
		and using the fill tool	export as an animated GIF	been used to	
		I know how to		enhance the media.	
		cut images with		I know how	
		accuarcy to layer on		to use a 3D drawing app to	
		other images.		create a realistic	
				representation of world	
				objects	

Information Technology Augmented Reality and Virtual Reality	 I know how to scan a QR code. I know how to explore a 360 image. I know how to talk about AR objects in my class 	 I know how to explore an interactive 360 image. I know how to scan a trigger image to begin a AR experience. I know how to pretend to interact with AR objects. I know how to draw my own 360 image and explore it in VR. I know how to bring objects into my surroundings using Augmented Reality. I know how to 	 I know how to create my own digital 360 image and explore it in VR I know how to create my own images and bring it into my surroundings I know how to create my own 360 video. I know how to use the camera to create a 360 image. I know how to add multiple objects into my surroundings through AR to explain a concept. 	 I know how to create an animated object and bring it into my surroundings through AR I know how to create an AR experience using objects I have created to explain a concept. I know how to create an interactive VR experience. I know how to create an interactive poster using AR I know how to explain how VR and AR works 	undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users
		 Augmented Reality. I know how to create my own QR code. 		explain how VR and AR works.	

Information	• I know how to record sounds with	I know how to	I know how to	I know how to add	undertake creative
Technology	different resources	create a sequence of	create and edit purposeful	voice over and edit sound	projects that involve
Sound	 I know how to find ways to change 	sounds (instruments,	compositions using music	clips (volume, pitch, fade,	selecting, using, and
	your voice (tube, tin can, shouting to create	apps/software)	software to create mood or	effect) to create a podcast.	combining multiple
	an echo)	 I know how to 	a certain style	I know how to	applications,
	• I know how to record sounds/voices	explore short and long	I know how to	create a remix of a popular	preferably across a
	in storytelling and explanations	sounds.	experiment with live loops	song.	range of devices, to
		 I know how to 	to create a song.	 I know how to add 	achieve challenging
		record my voice and add	 I know how to edit 	voice over and edit sound	goals, including
		different effects.	sound effects for a purpose.	clips (volume, pitch, fade,	collecting and
		 I know how to 	I know how to	effect) to use in a film or	analysing data and
		create a musical	create a simple four chord	radio broadcast (podcast)	meeting the needs of
		composition using	song following the correct	I know how to	known users
		software	rhythm.	compose a soundtrack that	
		 I know how to 	I know how to	can be added to a film	
		record my own sound	record a radio broadcast or	project.	
		effects.	audiobook.		
		 I know how to 			
		record my voice over a			
		compositions to perform			
		a song.			

Computer	I begin to understand an algorithm	I understand	I know how to	I know how to solve
Science	is a sequence of instructions or set of rules	what algorithms are	create algorithms for my	problems by decomposing
Computational Thinking	to get things done. (Algorithms)	I know how to	programming projects	them into smaller parts
	I can follow a simple algorithm by	write simple algorithms	I know how to	I know how to use
	responding to oral instructions. (Algorithms)	• I understand the	decompose projects (such as	selection in algorithms
	• I can begin to make my own simple	sequence of algorithms	an animation) into steps to	I know how to use
	algorithms by sequencing actions.	is important	create an algorithm	logical reasoning to explain
	(Algorithms)	I know how to	I understand	how a variety of algorithms
	• I can start to explain my thought	debug simple algorithms	abstraction is focusing on	work
	process and justify my decisions. (Logical	I know how to	important information	I know how to
	reasoning)	write algorithms for	I know how to	evaluate the effectiveness
	• I can explain what is the same and	everyday tasks	identify patterns in an	of algorithms
	what is different (Pattern)	I know how to	algorithm	I know how to
		use logical reasoning to	I know how to use	decompose a design or code
		predict the outcome of	abstraction to focus on	to focus on specific parts
		algorithms	what's important in my	I know how to use
		I understand	design	abstraction to hide
		decomposition is	• I know how to write	complexity in my design or
		breaking	more precise algorithms for	code
		objects/processes down	use when programming	I know how to
		I know how to	I know how to use	recognise and make use of
		debug algorithms	simple selection and	patterns in my design and
			repetition in algorithms	code
			I know how to use	I know how to
			logical reasoning to detect	critically evaluate my work
			and correct errors in	and suggest improvements
			programs	
			•	

Computer	• I can learn how digital toys and apps	I know how to	I know how to	I know how to	design, use and
Science Coding	work through exploration (Tinkering)	create a simple program	design a program	create programs by	evaluate
and Programming	• I can input more than one command	on a digital device e.g.	I know how to	decomposing them into	computational
Programming	into a programmable toy or simple app	Bee Bot or tablet	create a program using a	smaller parts	abstractions that
	• I can input a sequence of commands	I know how to	design	• I know how to use a	model the state and
	into a programmable toy or simple app	use sequence in	I know how to	variety of selection	behaviour of real-
	• I fix things through trial and error	programs	create a sequence of code	commands in programs	world problems and
	(Debugging)	I know how to	• I know how to work	I know how to use	physical systems
	• I can fix things and explain my	locate and fix bugs in my	with a variety of inputs and	conditions in repetition	understand several key
	approach (Debugging)	program	outputs	commands	algorithms that reflect
		I understand	I know how to	• I know how to work	computational thinking
		programs follow precise	evaluate my program	with variables	[for example, ones for
		instructions	I know how to use	I know how to	sorting and searching];
		I know how to	repetition in programs	create programs that	use logical reasoning to
		create programs using	 I know how to use 	control or simulate physical	compare the utility of
		different digital devices	simple selection in programs	systems	alternative algorithms
		E.g. Bee Bot or	I know how to work	I know how to	for the same problem
		ScratchJr on a tablet	with a variety of inputs and	evaluate my work and	use 2 or more
		I know how to	outputs	identify errors	programming
		debug programs of	 I know how to use 	I know how to use a	languages, at least one
		increasing complexity	logical reasoning to	range of sequence, selection	of which is textual, to
		I know how to	systematically detect and	and repetition commands to	solve a variety of
		use logical reasoning to	correct	implement my design	computational
		predict the outcome of	errors in programs	I know how to	problems; make
		simple programs		identify the need for, and	appropriate use of data
				work with, variables	structures [for
				I know how to	example, lists, tables or
				create procedures to hide	arrays]; design and
				complexity in programs	develop modular
				I know how to	programs that use
				critically evaluate my work	procedures or
				and suggest improvements	functions
					understand simple
					Boolean logic [for
					example, AND, OR and
					NOT] and some of its

Computer Science		 I understand that the computers in a school 	 I know how to use search technologies 	uses in circuits and programming; understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers [for example, binary addition, and conversion between binary and decimal] understand the hardware and software
Computer Networks (KS2)		are connected together in a network	effectively • I understand that	components that make up computer systems,
		• I understand why	web spiders index the web	and how they
		 computers are networked I understand that 	for search enginesI appreciate how	communicate with one another and with other
		servers on the Internet are	pages are ranked in a search	systems
		located across the planet	engine	understand how
		• I understand the difference between the	 I understand what HTML is and recognize 	instructions are stored and executed within a
		Internet and WWW	HTML tags	computer system;
		I understand how	I know a range of	understand how data
		web pages are viewed across	HTML tags and can remix a	of various types
		the internet	web page	(including text, sounds
			I know how to	and pictures) can be
			create a webpage using HTML	represented and manipulated digitally,
				in the form of binary
				digits

			I	ſ	
Digital Literacy	where and how to report concerns and get	• it is common for	 about the benefits of 	 about the benefits of 	understand a range of
E-Safety Internet safety	support with issues online	people to experience	rationing time spent online,	rationing time spent online,	ways to use technology
and harms		mental ill health. For	the risks of excessive time	the risks of excessive time	safely, respectfully,
		many people who do,	spent on electronic devices	spent on electronic devices	responsibly and
		the problems can be	and the impact of positive	and the impact of positive	securely, including
		resolved if the right	and negative content online	and negative content online	protecting their online
		support is made	on their own and others'	on their own and others'	identity and privacy;
		available, especially if	mental and physical	mental and physical	recognise
		accessed early enough	wellbeing.	wellbeing.	inappropriate content,
		 that for most people 	• how to consider the effect	 that the internet can also 	contact and conduct,
		the internet is an	of their online actions on	be a negative place where	and know how to
		integral part of life and	others and know how to	online abuse, trolling,	report concerns
		has many benefits.	recognise and display	bullying and harassment can	
		 about the benefits of 	respectful behaviour online	take place, which can have a	
		rationing time spent	and the importance of	negative impact on mental	
		online, the risks of	keeping personal	health.	
		excessive time spent on	information private.	 how to be a discerning 	
		electronic devices and	• why social media, some	consumer of information	
		the impact of positive	computer games and online	online including	
		and negative content	gaming, for example, are age	understanding that	
		online on their own and	restricted.	information, including that	
		others' mental and	• that the internet can also	from search engines, is	
		physical wellbeing.	be a negative place where	ranked, selected and	
		• how to consider the	online abuse, trolling,	targeted.	
		effect of their online	bullying and harassment can	• where and how to report	
		actions on others and	take place, which can have a	concerns and get support	
		know how to recognise	negative impact on mental	with issues online.	
		and display respectful	health.		
		behaviour online and			
		the importance of			
		keeping personal			
		information private.			
		• where and how to			
		report concerns and get			
		support with issues			
		online.			
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si tl u	 I can recognise that I can say 'no' / 'please stop' / 'I'll tell' / 'I'll ask' to somebody who asks me to do something that makes me feel sad, embarrassed or upset. I can explain how this could be either in real life or online. 	 I can recognise that there may be people online who could make me 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. 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 or frightened; I can give examples of how they might get help 	 I can explain what is meant by the term 'identity'. I can explain how people can represent themselves in different ways online I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming; using an avatar; social media) and why 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. 	 I can explain how identity online can be copied, modified or altered. I can demonstrate responsible choices about my online identity, depending on context. I can identify and critically evaluate online content relating to gender, race, religion, disability, culture and other groups, and explain why it is important to challenge and reject inappropriate representations online. I can describe issues online that could make anyone feel sad, worried, uncomfortable or frightened. I know and can give examples of how to get help, both on and offline. I can explain the importance of asking until I get the help needed. 	understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns

Digital Literacy	• I can recognise some ways in which	I can give	• I can describe ways	I can give examples	understand a range of
E-Safety Online	the internet can be used to communicate.	examples of when I	people who have similar	of technology specific forms	ways to use technology
Relationships (Also see	• I can give examples of how I (might)	should ask permission to	likes and interests can get	of communication (e.g.	safely, respectfully,
PHSE/RSE	use technology to communicate with people	do something online and	together online.	emojis, memes and GIFs).	responsibly and
Curriculum)	1	explain why this is	• I can explain what it	• I can explain that	securely, including
	know.	important	means to 'know someone'	there are some people I	protecting their online
		• I can use the	online and why this might be	communicate with online	identity and privacy;
		internet with adult	different	who may want	recognise
		support to communicate	from knowing someone	to do me or my friends	inappropriate content
		with people I know (e.g.	offline.	harm. I can recognise that	contact and conduct,
		video call apps or	• I can explain what is	this is not my / our fault.	and know how to
		services).	meant by 'trusting someone	• I can describe some	report concerns
		I can explain	online', why this is different	of the ways people may be	
		why it is important to be	from 'liking someone	involved in online	
		considerate and kind to	online', and why it is	communities and describe	
		people online and to	important to be careful	how they might collaborate	
		respect their choices.	about who to trust	constructively with others	
		I can explain	online including what	and make positive	
		why things one person	information and content	contributions. (e.g. gaming	
		finds funny or sad online	they are trusted with.	communities or social media	
		may not always be seen	I can explain why	groups).	
		in the same way by	someone may change their	I can explain how	
		others.	mind about trusting anyone	someone can get help if	
		 I can give 	with something if they feel	they are having problems	
		examples of how	nervous, uncomfortable or	and identify when to tell a	
		someone might use	worried.	trusted adult.	
		technology to	I can explain how	I can demonstrate	
		communicate with	someone's feelings can be	how to support others	
		others they don't also	hurt by what is said or	(including those who are	
		know offline and explain	written online.	having	
		why this might be risky.	I can explain the	difficulties) online.	
		(e.g. email, online	importance of giving and	I can explain how	
		gaming, a pen-pal in	gaining permission before	sharing something online	
		another school /	sharing things	may have an impact either	
		country).		positively or negatively.	

	 I can explain who I should ask before sharing things about myself or others online. I can describe different ways to ask for, give, or deny my permission online and can identify 	 online; how the principles of sharing online is the same as sharing offline e.g. sharing images and videos. I can describe strategies for safe and fun experiences in a range of online social environments (e.g. livestreaming gaming 	• 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	
	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 someone'. I can explain who can help me if I feel under pressure to agree to something I am unsure about or don't want to do. • I can identify who can help me if something happens online without my consent. • I can explain how it may make others feel if I do not ask their permission or ignore	 (e.g. livestreaming, gaming platforms). I can give examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours. I can explain how content shared online may feel unimportant to one person but may be important to other people's thoughts feelings and beliefs. 	 I can describe how I can describe how things shared privately online can have unintended consequences for others. e.g. screen-grabs. 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; and who can help if someone is worried about this. 	
	 their answers before sharing something about them online. I can explain why I should always ask 			

	a trusted adult before clicking 'yes', 'agree' or 'accept' online		

Online	• I can identify ways that I can put	I can recognise	• I can explain how to	• I can search for	• their rights,
Reputation	information on the internet.	that information can	search for information about	information about an	responsibilities and
		stay online and could be	others online.	individual online and	opportunities online,
		copied.	• I can give examples	summarise the information	including that
		I can describe	of what anyone may or may	found.	the same expectations
		what information I	not be willing to share about	• I can describe ways	of behaviour apply in
		should not put online	themselves online. I can	that information about	all contexts, including
		without asking a trusted	explain the need to be	anyone online can be used	online.
		adult	careful before sharing	by others to make	 about online risks,
		first	anything	judgments about an	including that any
		I can explain	personal.	individual and why these	material someone
		how information put	I can explain who	may be incorrect.	provides
		online about someone	someone can ask if they are	I can explain the	to another has the
		can last for a long time.	unsure about putting	ways in which anyone can	potential to be shared
		I can describe	something online	develop a positive online	online and the
		how anyone's online	I can describe how	reputation.	difficulty
		information could be	to find out information	I can explain	of removing potentially
		seen by others.	about others by searching	strategies anyone can use to	compromising material
		I know who to	online.	protect their 'digital	placed online.
		talk to if something has	I can explain ways	personality' and online	 not to provide
		been put online without	that some of the information	reputation, including	material to others that
		consent or if it is	about anyone online could	degrees of anonymity.	they would not want
		incorrect.	have been		shared
			created, copied or shared by		further and not to
			others.		share personal
					material which is sent
					to them.
					what to do and
					where to get support
					to report material or
					manage issues online.
					 the impact of viewing harmful content.
					that specifically sorubly explicit
					sexually explicit

		material e.g.,
		pornography
		presents a distorted
		picture of sexual
		behaviours, can
		damage the
		way people see
		themselves in relation
		to others and
		negatively
		affect how they
		behave towards sexual
		partners.
		 that sharing and
		viewing indecent
		images of children
		(including
		those created by
		children) is a criminal
		offence which carries
		severe penalties
		including jail.
		 how information and
		data is generated,
		collected, shared and
		used online.

Digital Literacy	I can describe ways that some	I can describe	I can describe	• I can	understand a range of
E-Safety Online	people can be unkind online.	how to behave online in	appropriate ways to behave	recognise online bullying	ways to use technology
Bullying	• I can offer examples of how this can	ways that do not upset	towards other people online	can be different to bullying	safely, respectfully,
	make others feel.	others and can give	and why this is important.	in the physical world and	responsibly and
		examples.	I can give examples	can describe some of those	securely, including
		I can explain	of how bullying behaviour	differences.	protecting their online
		what bullying is, how	could appear online and how	• I can	identity and privacy;
		people may bully others	someone can	describe how what one	recognise
		and how bullying can	get support.	person perceives as playful	inappropriate content,
		make someone feel.	• I can recognise when	joking and teasing (including	contact and conduct,
		I can explain	someone is upset, hurt or	'banter') might be	and know how to
		why anyone who	angry online.	experienced by others as	report concerns
		experiences bullying is	I can describe ways	bullying.	
		not to blame	people can be bullied	I can explain	
		I can talk about	through a range of media	how anyone can get help if	
		how anyone	(e.g. image, video,	they are being bullied online	
		experiencing bullying	text, chat).	and identify when to tell a	
		can get help.	I can explain why	trusted adult	
			people need to think	• I can	
			carefully about how content	identify a range of ways to	
			they post might affect	report concerns and access	
			others, their feelings and	support both in school and	
			how it may affect how	at home about	
			others feel about them	online bullying	
			(their	I can explain	
			reputation).	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).	
				• I can	
				describe how to capture	
				bullying content as evidence	

		(e.g screen-grab, URL, profile) to share with others who can help me.	
		I can explain	
		how someone would report	
		online bullying in different contexts.	

Digital Literacy	• I can talk about how to use the	I can give simple	I can demonstrate	• I can explain the	understand a range of
E-Safety	internet as a way of finding information	examples of how to find	how to use key phrases in	benefits and limitations of	ways to use technology
Managing Online	online.	information using digital	search engines to gather	using different types of	safely, respectfully,
Information	• I can identify devices I could use to	technologies, e.g. search	accurate information online.	search technologies	responsibly and
	access information on the internet.	engines, voice activated	• I can explain what	e.g. voice-activation search	securely, including
		searching).	autocomplete is and how to	engine. I can explain how	protecting their online
		I know /	choose the best suggestion.	some technology can limit	identity and privacy;
		understand that we can	• I can explain how	the	recognise
		encounter a range of	the internet can be used to	information I aim presented	inappropriate content,
		things online including	sell and buy things.	with e.g. voice-activated	contact and conduct,
		things	• I can explain the	searching giving one result.	and know how to
		we like and don't like as	difference between a	• I can explain what is	report concerns
		well as things which are	'belief', an 'opinion' and a	meant by 'being sceptical'; I	
		real or make believe / a	'fact. and can give	can give examples of when	
		joke.	examples of how and where	and why it is important to	
		I know how to	they might be shared online,	be 'sceptical'.	
		get help from a trusted	e.g. in videos, memes, posts,	• I can evaluate digital	
		adult if we see content	news stories etc.	content and can explain	
		that makes us feel sad,	• I can explain that	how to make choices about	
		uncomfortable worried	not all opinions shared may	what is	
		or frightened	be accepted as true or fair	trustworthy e.g.	
		• I can use simple	by others (e.g. monsters	differentiating between	
		keywords in search	under the bed).	adverts and search results.	
		engines.	• I can describe and	I can explain key	
		• I can	demonstrate how we can	concepts including:	
		demonstrate how to	get help from a trusted adult	information, reviews, fact,	
		navigate a simple	if we see content that makes	opinion, belief, validity,	
		webpage to get to	us feel sad, uncomfortable	reliability and evidence	
		information I need	worried or frightened.	I can identify ways	
		(e.g. home, forward,	I can analyse	the internet can draw us to	
		back buttons; links, tabs	information to make a	information for different	
		and sections).	judgement about probable	agendas, e.g.	
		• I can explain	accuracy and I understand	website notifications, pop-	
		what voice activated	why it is important to make	ups, targeted ads.	
		searching is and how it	my own decisions regarding	I can describe ways	
		might be used, and	content and that my	of identifying when online	

know it is not a real	decisions are respected by	content has been
person (e.g. Alexa,	others.	commercially sponsored or
Google Now, Siri).	I can describe how	boosted, (e.g. by
• I can explain the	to search for information	commercial companies or
difference between	within a wide group of	by vloggers, content
things that are	technologies and	creators, influencers).
imaginary, 'made up' or	make a judgement about the	I can explain what is
'make	probable accuracy (e.g.	meant by the term
believe' and things that	social media, image sites,	'stereotype', how
are 'true' or 'real'.	video sites).	'stereotypes' are amplified
I can explain	• I can describe some	and
why some information I	of the methods used to	reinforced online, and why
find online may not be	encourage people to buy	accepting 'stereotypes' may
real or true	things online (e.g.	influence how people think
	advertising offers; in-app	about
	purchases, pop-ups) and can	others.
	recognise some of these	I can describe how
	when they	fake news may affect
	appear online.	someone's emotions and
	• I can explain why	behaviour, and explain why
	lots of people sharing the	this may be harmful.
	same opinions or beliefs	I can explain what is
	online do not make those	meant by a 'hoax'. I can
	opinions or beliefs true.	explain why someone would
	• I can explain that	need to think
	technology can be designed	carefully before they share.
	to act like or impersonate	I can explain how
	living things (e.g.	search engines work and
	bots) and describe what the	how results are selected and
	benefits and the risks might	ranked.
	be.	I can explain how to
	• I can explain what is	use search technologies
	meant by fake news e.g. why	effectively.
	some people will create	I can describe how
	stories or alter photographs	some online information
	and put them online to	

			can be opinion and can offer
	whe	en it isn't.	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.
			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 influences
			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
	I		

	more likely to engage with
	and how to recognise this.
	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.

Digital Literacy	a loop identify myles that hole loop ye				understand a range of
E-Safety Health,	• I can identify rules that help keep us safe and healthy in and beyond the home	• I can explain	• I can explain why	• I can describe ways technology can affect health	understand a range of
Well-being, and		rules to keep myself safe	spending too much time	0,	ways to use technology
Lifestyle	when using technology.	when using technology	using technology can	and well-being both	safely, respectfully,
	• I can give some simple examples of	both in and beyond the	sometimes have a negative	positively (e.g. mindfulness	responsibly and
	these rules.	home.	impact on anyone, e.g.	apps) and negatively.	securely, including
		I can explain	mood, sleep, body,	I can describe some	protecting their online
		simple guidance for	relationships; I can give	strategies, tips or advice to	identity and privacy;
		using technology in	some examples of both	promote health and	recognise
		different environments	positive and negative	wellbeing with	inappropriate content,
		and settings e.g.	activities where it is easy to	regards to technology.	contact and conduct,
		accessing online	spend a lot of	I recognise the	and know how to
		technologies in public	time engaged (e.g. doing	benefits and risks of	report concerns
		places and the home	homework, games, films,	accessing information about	
		environment.	videos).	health and well-being online	
		I can say how	I can explain why	and how we should balance	
		those rules / guides can	some online activities have	this with talking to trusted	
		help anyone accessing	age restrictions, why it is	adults and professionals.	
		online technologies.	important to follow them	I can explain how	
			and know who I can talk to if	and why some apps and	
			others pressure me to watch	games may request or take	
			or do something online that	payment for	
			makes me feel	additional content (e.g. in-	
			uncomfortable (e.g. age	app purchases, lootboxes)	
			restricted gaming or	and explain the importance	
			web sites).	of	
			 I can explain how 	seeking permission from a	
			using technology can be a	trusted adult before	
			distraction from other	purchasing.	
			things, in both a positive and	I can describe	
			negative way.	common systems that	
			 I can identify times 	regulate age-related content	
			or situations when someone	(e.g. PEGI, BBFC, parental	
			may need to limit the	warnings) and describe their	
			amount of time they use	purpose.	
			technology e.g. I can suggest	• I recognise and can	
				discuss the pressures that	

	strategies to help with	technology can place on
	limiting this time.	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).

 L can identify some simple examples of my personal information (e.g. and Security and Security and Security L can describe who would be trustworthy to share this information with; can explain why they are trusted. L can describe who would be trustworthy to share this information with; can explain why they are trusted. L can describe who would be trustworthy to share this information with; can explain why they are trusted. L can explain why they are trusted. L can explain why they are trusted. L can explain why they are trusted. L can explain that passwords are used of information with are provised of information that is personal to someone (e.g. where someone (con explain thet (formation, aradsorane	to of
and SecurityChamperson influence iname, address, birthday, age, location). 	
 I can describe who would be trustworthy to share this information with; I can explain why they are trusted. I can recognise more detailed examples of information that is personal to someone (e.g. where someone (e.g. where someone) family names). I can explain that if they are not sure or feel pressured then they should tell a trusted adult. I can explain that if they are not sure or feel pressured then they should tell a trusted adult. I can describe how online, belonging to online, belonging to online, belonging to and devices. I can explain and give examples of what is meant by 'private' and devices. I can explain and give examples of what is meant by 'private' and devices. I can explain and give examples of what is meant by 'private' and 'keeping things' 	
trustworthy to share this information with; I can explain why they are trusted.• I can recognise more detailed examples of information that is personal to someone (e.g where someone lives and goes to school, family names).• My someone should only share information with personal to someone (e.g where someone lives and goes to school, family names).• I can explain that if they are not sure or feel pressured than they should tell a trusted adult.• I can explain how many free apps or services information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.securely, includi protecting their identity and private consect of audult.• I can explain how passwords can be used to protect information, accounts and devices.• I can explain that it formation with others.• I can explain that it they are not sure or feel pressured than thoy tell a trusted adult.• I can explain what app permissions are and can give some examples.• I can explain what app permissions are and can give some examples.• I can explain what to do if a password is shared, lost or stolen.• I can explain that internet use is never fully personal information and devices.• I can escribe how and mey cess.• I can explain that internet use is never fully private and is monitored, e.g. adult supervision.• I can describe how and why people should keep their software and apps up to date,	<i>y</i> ,
can explain why they are trusted.more detailed examples of information that is personal to someone (e.g. where someone lives and goes to school, family names).share information with people they choose to and can trust.many free apps or services may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.protecting their identity and priv recognise• I can explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others.• I can explain what adult before sharing any personal information online, belonging to information, accounts and devices.• I can explain they are not sure or feel pressured then they should tell a trusted adult.• I can explain what appermissions are and can give some examples.• I can explain what appermissions are and can give some examples.• I can explain how passwords can bu used to protect information, accounts and devices.• I can explain that internet use is never fully private and is monitored, e.g. adult supervision.• I can describe how and why people should keep their software and apps up to date,	a
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(e.g where someone lives and goes to school, family names).• I can explain that if they are not sure or feel pressured then they shouldfriends, contacts, likes, images, videos, voice, messages, geolocation) with others.inappropriate co contact and con and know how t report concerns• I can explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others.• I can describe how conlected devices can collect and share anyone's information with others.• I can describe effective ways people can manage passwords (e.g. storing them securely or saving them in the browser).• I can explain personal information online, belonging to myself or others.• I can explain that information, accounts and devices.• I can explain that information private, depending on context.• I can explain what to do if a password is shared, lost or stolen.• I can explain mhat imemant by 'private' and 'keeping things• I can describe how e.g. adult supervision.• I can describe how always as a trusted and know howt or treport concerns	cy;
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used to protectcontext.I can explain whatinformation, accountsI can explain thatto do if a password isand devices.internet use is never fullyshared, lost or stolen.I can explain andprivate and is monitored,I can describe howgive examples of what ise.g. adult supervision.and why people should keepmeant by 'private' andI can describe howtheir software and apps up'keeping thingssome online services mayto date,	
information, accounts and devices.• I can explain that internet use is never fullyto do if a password is shared, lost or stolen.• I can explain and give examples of what is meant by 'private' and 'keeping things• I can explain that internet use is never fullyto do if a password is shared, lost or stolen.• I can explain and give examples of what is meant by 'private' and 'keeping things• I can describe how some online services may• I can describe how their software and apps up to date,	
and devices.internet use is never fullyshared, lost or stolen.I can explain andprivate and is monitored,I can describe howgive examples of what ise.g. adult supervision.and why people should keepmeant by 'private' andI can describe howtheir software and apps up'keeping thingssome online services mayto date,	
 I can explain and give examples of what is meant by 'private' and is monitored, meant by 'private' and 'I can describe how their software and apps up to date, I can describe how and why people should keep their software and apps up to date, 	
give examples of what is meant by 'private' and 'keeping thingse.g. adult supervision.and why people should keep their software and apps up to date,	
meant by 'private' and 'keeping thingsI can describe how some online services maytheir software and apps up to date,	
'keeping things some online services may to date,	
private' seek consent to store e.g. auto updates.	
I can describe information about me; I I can describe	
and explain some rules know how to respond simple ways to increase	
for keeping personal appropriately and who I can privacy on apps and services	
information private (e.g. ask if I am not sure. that provide privacy	
creating and protecting • I know what the settings.	
passwords). digital age of consent is and • I can	
I can explain the impact this has on online describe ways in which	
how some people may services asking for consent. some online content targets	

		have devices in their homes connected to the internet and give examples (e.g. lights, fridges, toys, televisions).		 people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing). I know that online services have terms and conditions that govern their use. 	
Key Vocab: Information Technology Word Processing	Computer, Keyboard, Device, Tablet, Dictate, type	Space Bar, Delete, Return Key, Enter, Mouse, Trackpad, arrow keys, cursor, select, Cut, copy, paste. Caps Lock, Insert, Image, Save, clipboard, editing, header, highlight	Touch type. Edit, format, font, size, borders, shadows, duplicate, organise, undo, redo, autocorrect, clipart Group, crop, source, object, posters, documents, eBooks, scripts, leaflets. CTRL, spell check, thesaurus, record	Import, export, hyperlinks, animate, build in, build out, italics, bold, arrange, bullets, Alignment, application, tabs, toolbar, build order, layout, shift key, PDF, columns, graphics	
Key Vocab: Information Technology Data Handling	Chart, sort, data, count, list	Columns, category, tally chart, pictograms, explain, Venn diagrams, Carroll diagrams, bar charts, database, table	Table, column, row, cell, spreadsheet, graph, Formatting, questionnaire, Active Cell, Autofit, multiple choice, checkbox	Formula bar, Autosum, Autofill, value Range, =, fill, conditional formatting	
Key Vocab: Information Technology Presentation, Web Design, and eBook Creation	Record, image, digital, collage, move, resize, pinch	Labels, order, storyboard, sequence, spider diagram, text box, style Voice labels, import, tag, add to, right click, layout, format	Media, interactive, audio, annotate, background, clip art, prototype, web page, timeline, Animation, design template, effects, multimedia, eBook, ePub, export, hyperlinks	Blog, collaboration, share,, slide layout, slide show, transitions, embed, publish, instant alpha Placeholder, dropdown, navigation, homepage, footer, sidebar, HTML, URL, design, application	
Key Vocab: Information Technology Animation	Animation, character, record	Filters, stickers, scene Stop motion, ghosting, timing, cartoon	Frame, framerate, layout, onion skinning, trim, 3D, line draw, build in, build out, exposure, dynamic	Chroma Key, Flipbook, export, GIF, publish, Staging, aspect ratio, computer generated imagery (CGI) angles, overlay, claymation, cut scene	

Key Vocab: Information Technology Video Creation	Photography, video, record, camera roll, play, pause, microphone	Voiceover, highlight, zoom, countdown, playback, delete, pause, rewind, fast forward. Teleprompter, pace, rate, effects, titles, Greenscreen, layer, masking, drag	Sequence, trim, cut, transition, trailer, close-up, action shot, timeline, Clips, media library, import, ken burns, subtitles, crop, overlay, adjust, playback, pan, tilt	Split screen, cutaway, montage, fade, Picture in Picture	
Key Vocab: Information Technology Photography and Digital Art	Photograph, digital, paint, capture	Edit, drawing, cut, layer, mark up, erase, Crop, filters, fill, export, JPEG, zoom, flash, undo	Manipulate, brush size, transparent, instant alpha, PNG, framing, Brightness, contrast, resize, digital shapes, focus, artificial, natural, lighting	Photoshop, landscape, portrait, Exposure	
Key Vocab: Information Technology Augmented Reality and Virtual Reality	Scan, image, 360, digital image	Surroundings, objects, interact, Markers, Augmented Reality, trigger	Field of view, Holograms, Virtual Reality, explore, slide size, Target image, recognition, panoramic	Markup, ARKit and ARCore	
Key Vocab: Information Technology Sound	Record, sound, microphone, echo	Sequence, instruments, short, long, effects, Sound effects, loops	Input, output, selection, mix, Podcast, clipping, crossfade, fade, gain	Channel, feedback, chorus, compose, Compression, reverb, BPM	

Key Vocab: Computer Science Computational Thinking	Instruction, follow, first, next	Algorithm, sequence, order, bug, fix, precise, Decomposition, debug, reason, detail, breakdown, task	Abstraction, information, relevant, pattern, same, different, complex, Logical reasoning, design, algorithmic thinking, selection, repeat	Evaluation, effectiveness, complexity, data, prediction, condition, Generalisation, pattern, reuse, modify, remix, critical	
Key Vocab: Computer Science Coding and Programming	Mouse, touch screen, move, command, device	Digital, program, follow, code, bugs, fix, order, ScratchJr, Precise, logical reasoning, prediction, debug, sequence	Sequence, inputs, outputs, code, design, programming language, Scratch, Repetition, loop, forever loop, count controlled loop, selection, condition, systematic	Data, memory, variables, value, initialisation, control, simulate, physical system, Procedure, abstraction, conditional loop, logic, operator, implement	
Key Vocab: Computer Science Computer Networks (KS2)			Network, server, client, LAN (LocalArea Network), switch, Internet, router, data, web page, submarine cable	Search engine, spiders, index, ranked, ranking algorithm, keyword, HTML (Hypertext Markup Language), opening tag, closing tag, code	

Key Vocab: Digital Literacy E-Safety Education for a Connected World	Online, offline, communicate, internet, information, feelings, rules	Trust, permission, video call, kind, respect, trusted adult, search engines, Google, personal information, password, accounts, Online gaming, sharing, pressure, accept, consent, bullying, home, forward, links, tabs, sections, Siri, untrue, wellbeing, private, Al, comments	Identify, represent, avatar, likes, trusting, uncomfortable, cyberbullying, accurate, autocomplete, belief, opinion, fact, mood, engaged, age restrictions, data, copyright, digital footprint, Interact, livestream, healthy, unhealthy online behaviours, analyse, fake news, in- app purchases, pop- ups, bots, distraction, screen time, geolocation, adware, cookies	Copied, modified, altered, choices, responsible, emojis, memes, social media, perceive, childlike, block, abusive, sceptical, trustworthy, adverts, validity, reliability, scams, disinformation, echo chamber, Inappropriate, stereotypes, gender, screen grabs, boundaries, unintended consequences, inappropriate images, anonymity, digital personality, URL, profile, ad targeting, persuasive design, phishing, terms and conditions, encryption	
Apps: Information Technology Word Processing	Seesaw, Word, Pages Google Docs Pic Collage	Seesaw, Word, Pages Google Docs Pic Collage, Keynote Book Creator, Popplet	Seesaw, Word, Pages Google Docs Keynote Book Creator, Popplet	Seesaw, Word, Pages Google Docs Keynote Book Creator, Popplet	
Apps: Information Technology Data Handling	Seesaw,	Seesaw, Pic Collage, Plickers Google Sheets, Google Forms, Excel, Numbers	Google Sheets, Google Forms, Excel, Numbers, Kahoot	Google Sheets, Google Forms, Excel, Numbers, Mentimeter	
Apps: Information Technology Presentation, Web Design, and eBook Creation	Seesaw	Seesaw, Pic Collage, Balloon Stickies +, Thinglink, Book Creator	Balloon Stickies +, Google Sites, Book Creator,Keynote, Adobe Spark Page, Thinglink, Marvel	Google Sites, Book Creator, Keynote, PowerPoint, Wakelet, Adobe Spark Page, Thinglink	

Apps: Information Technology Animation	Puppetpals, ChatterPix Kids	Puppetpals, ChatterPix Kids, I Can Animate, Seesaw	Puppetpals, ChatterPixKids, Animate Anything, I Can Animate, iFunFace, Seesaw, Puppetmaster, Toontastic	Puppetpals, ChatterPixKids, Animate Anything, I Can Animate, iFunFace, Seesaw, Plotagon, Puppetmaster, Toontastic	
Apps: Information Technology Video Creation	Camera App Shadow Puppets Edu	Doink Greenscreen, iMovie, Shadow Puppets Edu, Adobe SparkVideo	Doink Greenscreen, iMovie, Shadow Puppets Edu, Videorama, Apple Clips Explain Everything	Doink Greenscreen, iMovie, Shadow Puppets Edu, Videorama, Apple Clips Explain Everything	
Apps: Information Technology Photography and Digital Art	Camera, Mark up, Photo booth, Seesaw, Draw & Tell	Camera Mark up, Photobooth, Seesaw, Keynote, Pic Collage, Notes	Camera and Mark up, Notes, Seesaw, Keynote Pic Collage, Sketches Pro, Paper	Camera and Mark up, Notes, Seesaw, Keynote, Pic Collage, Sketches Pro Paper	
Apps: Information Technology Augmented Reality and Virtual Reality	AR Makr, Figment AR LEO AR Camera	AR Makr, Thinglink, Keynote, Figment AR	AR Makr, Thinglink, Keynote, EyeJack, Figment AR Halo AR	AR Makr, Adobe Aero, Thinglink, Keynote, EyeJack, Merge Cube, Figment AR Halo AR	
Apps: Information Technology Sound	Seesaw, Voice Memos, Keezy	Seesaw, Voice Memos, Garageband, Anchor, Keezy	Seesaw, Voice Memos, Garageband, Anchor, Keezy	Seesaw, Voice Memos, Garageband, Anchor, Keezy	
Apps: Computer Science Computational Thinking	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	
Apps: Computer Science Coding and Programming	Beebot, Daisythe Dinosaur	Beebot, Scratch Jnr, Kodable, Tynker	Beebot, Scratch Jnr, Kodable, Tynker, Scratch 3, Hopscotch, Swift Playgrounds	Beebot, Scratch Jnr, Kodable, Tynker, Scratch 3, Hopscotch, Swift Playgrounds	

Apps: Computer Science Computer Networks (KS2)	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	Resources from MrPICT.com, Barefoot Computing	
Apps: Digital Literacy E- Safety Education for a Connected World	ProjectEvolve.com MrPICT.com	ProjectEvolve.com MrPICT.com	ProjectEvolve.com MrPICT.com	ProjectEvolve.com MrPICT.com	