	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Technology in the real world		Use different font sizes, colours and images to communicate meaning. Use appropriate language in an email.	Use search technologies safely and effectively. Use different font sizes, colours and images purposefully. Open, send and save emails. Know how to use digital tools responsibly to communicate.	Use search technologies effectively to collect, analyse and evaluate digital content. Use digital devices to combine different software and present data and information.
Programming		Know what algorithms are and how they are used. Write and test simple programs. Use logical reasoning to make predictions.	Design and write programs, including decomposing, to achieve specific goals. Use logical reasoning to explain simple algorithms.	Design, write and debug programs to solve problems, control simulations and physical systems. Use sequences, repetition, variables, inputs and outputs. Detect and correct errors in algorithms and programs.
Purposeful Application		Use technology to create, organise, store, manipulate and retrieve data. Recognise how IT is used beyond school.	Select and use technology to collect and present data and information. Create and implement a range of programs to accomplish given goals. Understand computer networks including the internet.	Select, use and combine software to collect, analyse, evaluate and present data appropriately. Design a range of programs. Understand computer networks for collaboration and communication.
Online Safety		Know what to do if they need help because of something online. Know what personal information is and why they need to keep it private. Use technology safely and respectfully.	Recognise unacceptable behaviour online. Know how to deal with and report inappropriate content and contact. Continue to use technology safely and responsibly.	Use technology safely, respectfully responsibly, recognising appropriate behaviour and knowing how to report concerns.

Key Stage 1									
Technology in the Real World	Programming	Purposeful Application	Online Safety						
Use different font sizes, colours and	Respond to a range of stimuli.	Develop techniques of colour, pattern, texture, line, shape, form and	Learn about a range of artists,						
images to communicate meaning.	Create art from imagination.	space.	craftsmen and designers.						
Use appropriate language in an	Begin to give reasons for	Use line to represent objects seen, remembered or imagined.	Be able to give their opinion						
email.	choices.	Experiment and enjoy colour using a variety of tools to spread paint.	and say what they like / dislike.						
		Experiment with different materials, textures and patterns.	Make links to their own work.						

Year B **Sequence of Lessons** Prior Unit Outcome / Intent Vocabulary (children will learn) Learning WALT (children will...) Composite Y2: My Children will learn My Online 1. WALT: learn who can help us online and how to Children will create Algorithm **Autumn** Online Life: Life / an algorithm that about the different communicate appropriately (children will learn who can Camera Modern parts of a computer Y1.2 What is help them if they feel upset or worried and etiquette for CD-DVD could be turned Tales and iPad. They will a Computer? online communication; children will send an email) Data Debug into a program. learn new skills, tips 2. WALT: know what we can and can't share online (children Drive DVD/CD and tricks. will sort information that should and should not be shared) email 3. WALT: understand online bullying (children will learn what Hard Drive it is and how to approach it) Hardware Instructions 4. WALT: who owns the information on the internet (children will learn who owns internet content and if and how it can Keyboard be removed) Monitor Mouse 5. WALT: what a computer is (children will discuss hardware **Printer Processor** and software and use technology to take images) **Program** 6. WALT: understand what is inside technology (children will **QR Code Robot** Send/Receive follow and create simple algorithms) 7. WALT: understand what programs are (children will create Sign-in Sequence an algorithm that could be turned into a program) Software 8. WALT: learn who can help us online and how to **Speakers** communicate Sprite Wireless Children will create Y1 My The children will write Knowsley: WALT: understand whether you can trust everyone you **Bullying Copyright Spring** Online Life: a basic story with Y2 My meet online (children will learn that users can hide their **Empathy Identity** their own coded What is a Online Life / Image Online illustrations. They will identity; learn how to keep their personal information animated story. then turn this into an Y2.2 Code a **Password Private** computer? safe) animated story using Story 2. WALT: understand the impact of online behaviour Profile Reputation visual coding. The (children will discuss and role-play situations which may Risks Self Trust activity will introduce affect them) new concepts such as 3. WALT: guestion whether everything seen online is Backdrop Book true/real and who owns/creates it (children will **Browser Characters** conditional language, evaluate digital resources and content) Code Computational

		repeat loops and		4.	WALT: write an algorithm (children will use Scratch to	Debug Digital	
		debugging.			create a sequence of commands)	Execute/Run Images	
				5.	WALT: learn to debug an algorithm (children debug	Loops Password	
					offline/online algorithms)	Program Repeat	
				6.	WALT: create a coded animated story (children will use	Sequence Thinking	
					Scratch to create their own story)	Username WWW	
Summer	Knowsley:	Children take the role	Y2 My	1.	WALT: recap who can help us online and how to	Author	Children will create
	Y2 My	of authors to write the	Online Life /		communicate appropriately children will send an email)	Chat	pages for an online
	Online Life;	sequel to popular	Y2.3 Story	2.	WALT: recap what we can and can't share online	Download	book
	Code a Story	children's stories. They	Land	3.	WALT: create and photograph a page layout	Landscape	
		then create		4.	WALT: turn pencil drawings into digital artwork	Publish	
		illustrations for their		5.	WALT: create a story using text, audio and illustrations	Sequel	
		story and record them				Storymap	
		self reading it in order				Stroke	
		to create an audiobook				Template	
		to publish online.					

Lower Key Stage 2

Technology in the Real World

Use search technologies safely and effectively.
Use different font sizes, colours and images purposefully.

Open, send and save emails.

Know how to use digital tools responsibly to communicate.

Programming

Design and write programs, including decomposing, to achieve specific goals. Use logical reasoning to explain simple algorithms.

Purposeful Application

Select and use technology to collect and present data and information. Create and implement a range of programs to accomplish given goals. Understand computer networks including the internet.

Online Safety

Recognise unacceptable behaviour online. Know how to deal with and report inappropriate content and contact.

Continue to use technology safely and responsibly.

Year B

	Prior Learning	Intent	Unit	Sequence of Lessons	Vocabulary	Outcome /
		(children will learn)		WALT (children will)		Composite
Autumn	In KS1: My Online	Chat It: We use	Online safety	Chat It		Children
	Life Children will	respectful words when	Natterhub:	To know how to communicate what I am doing		complete a
	have been taught	we chat to people	Y4 Chat it	online and explain why I have chosen to do so.		range of
	what personal	(online and offline).	Y4 Mind it	To know how to create a safe screen name.		activities,
	information is and	Mind It: We are kind	Y4 Secure it	To understand ways to communicate online.		discussions and
	why they need to	and honest online.		To describe how others can find out information		quizzes which
	keep it private. Use	Secure It: We keep		about me by looking online.		result in a
	technology safely	ourselves safe online by		Mind It		badge for each
	and respectfully.	using privacy settings		To describe how others can find out information		unit.
	Know what to do if	and common sense.		about me by looking online.		
	they need help			To explain ways that information about me online		
	because of			could have been copied, changed or shared.		
	something online.			To understand how online posts last forever.		
				Secure It		
				To explain the ways people can and should protect		
				their personal information online.		
				To understand how personal information can be		
				used by others.		
				To explain how internet use can be monitored.		
	KS1 – My Online	•	Y4 My Online			
	Life	range of questions &	Life	What is your online identity?	Copyright	In both units
		scenarios to build on		2. Can you control your own online reputation?	Identity	children will
		prior knowledge and		3. How do you build safe online relationships?	Online Bullying	work through
		develop further their		4. What can you do to stop online bullies?	Password	and complete a
		understanding of online		5. How do you interpret online information?	Private	digital
		safety.		6. How can you ensure technology does not take	Profile	workbook to
				over your life?	Reputation	evidence
				7. How can you protect your online information	Risks	understanding.
				and accounts?	Self Image	

				/ho owns content online?	Trust	
	Y2.2 Code a Story	Children will look at different aspects of programming as well as considering the impact technology can have on health, well being and lifestyle. The children will learn all about the career of games designer. They will play games, write reviews and then design and prototype their own game.	Y4.6 Games Designer	Animation Audio Axis Animyou create programs in Scotch? Anyou add improvements to programs in Cratch? Animation Audio Axis Cloud Con Coordin Debugging Folders Gr Illustrati Output Publish R Screence Screen	priate Algorithm App Application X & Y Bluetooth ditional Console ates Costume Files Flow Chart iefing Hardware on Input Loop PEGI Program epetition Scene ast Screenshot time Selection quence Software able Video Game	
Spring	Natterhub Unit Y4 Question It	To understand and identify what is fake news and why it is produced (Fake or Real).	Y4.1 Fake or Real?	hat is fake news? entify fake news an you identify fake news using search engines? lake informed choices eflect session on fake news	Fake News Reporting Skeptical Verify Media	Children work through and complete a digital workbook to evidence understanding.
	Y1.2 What is a computer Y2.2 Code a Story	To use online research skills to research endangered animal species. Pupils will make a class film to inform about how making small changes can help.	Y4.7 Endangered Species	reate a digital workbook nderstand how technology can be used to explore the orld nderstand copyright when creating illustrations se technology to make a poster lake a class film	App Application Audio Filters Hashtag Illustration Publish Scene Screencast Screenshot Script Shot	anderstanding.
	KS1 My Online Life Y4 Natterhub Units	Balance It: We take care of our minds and bodies to stay healthy. Feel It: We are kind and thoughtful and learn from our mistakes.	Online safety Natterhub: Y4 Balance it Y4 Feel it Y4 Do it	ce It Insider how time spent on technology can affect other cies. Iderstand the importance of sleep for our physical and lal health. Iderstand why limits are needed on screen time.	Storyboard	Children complete a range of activities, discussions and quizzes which result in a

				To identify some online technologies where place. To understand the behaviours that are cons bullying.	idered online	badge for each unit.
Summer	Y2.2 Code Story Y4.6 Games Designer Children will have been taught what algorithms are and how they are used.	Children will explore the history of robots for developing programming skills to then programme a robot to move around a maze (Programming with Robots)	Y3.6 Programming with Robots	 To understand the effect an online post can Understand what robots are. Understand what is meant by programming a robot. Consider whether you would trust a driverless. Create a driverless car simulator in scratch. Create a programme for a driverless car simulator in scratch. Debug a programme. 	Algorithm Apps Backdrop Block Browser Command Condition Content Debug Decomposition Digital Electronics Engine Engineering Evaluation Facts Fake News File Flow Chart Folder Font Hardware Illustration Images Input Internet Multimedia Network Output Palette Password PDF Post Private Profile Program Reliable Repeat/Loop Robot Screenshot Search Sequence Simulation Software Sprite Stage Technology Template Username Variables WWW X/Y Axis Code	In both units children will work through and complete a digital workbook to evidence understanding.
	Write and test simple programs. Use logical reasoning to make predictions and design a game.	Children will look at different aspects of programming with a specific focus on animation (Hour of Code)	Y4.2 Hour of Code	 Understand what is meant by hour of code. Give instructions to an on screen sprite. Use computing vocabulary. Use code to animate. Use code to animate. Use code to animate. 	Block Command Conditional Loop Program Run Sequence Sprite Website	

Upper Key Stage 2

Technology in the Real World Programming

Use search technologies effectively to collect, analyse and evaluate digital content.
Use digital devices to combine different software and present data and information.

Design, write and debug programs to solve problems, control simulations and physical systems.

Use sequences, repetition, variables, inputs and outputs.

Detect and correct errors in algorithms and

programs.

Purposeful Application

Select, use and combine software to collect, analyse, evaluate and present data appropriately.

Design a range of programs.

Understand computer networks for collaboration and communication.

Online Safety

Use technology safely, respectfully responsibly, recognising appropriate behaviour and knowing how to report concerns.

Year B

	1			Year B	1	1
	Prior Learning	Intent	Unit	Sequence of Lessons	Vocabulary	Outcome /
		(children will learn)		WALT (children will)		Composite
Autumn	Natterhub:	Chat It – We use	Online Safety	Chat It		
	Y4 Chat it	respectful words when	Natterhub	To reflect on my own screen time and understand how to make a		
	Y4 Mind it	we chat to people	Y6 Chat it	change.		
	Y4 Secure it	(online and offline)	Y6 Think it	To understand the importance of respectful communication.		
	My Online Life:	Think It – we think	Y6 Balance it	To recognise the problems that can come with sharing		
	Recognise	carefully about what we		information online.		
	unacceptable	do online		To know how to report problems and support others when I am		
	behaviour online;	Balance It – We take		working online.		
	know how to deal	care of our minds and		Think It		
	with and report	bodies to stay healthy		To understand inequality, prejudice and discrimination online.		
	inappropriate			To understand what positive and negative online interactions		
	content and			look like and how we can respond to them		
	contact			To identify places to get help when faces with a difficult situation		
				Balance It		
				To identify and resist online temptations and pressures		
				To identify decision that come with responsible internet use		
					Cloud	
	Design and write	To explore Virtual	Y6.3 VR	1.What is VR?	MP3	Create own VR
	programs and	Reality (VR) and how it	Worlds	2.What is an online account?	Password	world
	understand	can be used in the		3.What are scenes in my VR world?	Story Map	
	computer	classroom. The children		4. How can we record our script and add it to our VR world?	Visual coding	
	networks including	will also build their own		5.How do we review our VR worlds?	Virtual world	
	the internet.	VR.		6.Reflect, feedback in improve.	VR Server	
					Z-Axis	
		To explore coding and	Y6.2 Crossy	1.What is coding?		
		use Hopscotch to create	Roads	2. What is the key vocabulary you need to use?	Coding	Child will be able
				3. How are games made using visual coding?	Command Loop	to play and share

		a game that ca				4. What extra elements should we code into our game?	Decompose	their own Crossy
		shared onlin				5.How can I share my game?	Variable Publish	Roads game
Spring	My Online Life Natterhub: Y4 Balance It Y4 Feel it Y4 Do it	Mind It: We are kind and honest online. Question It: We ask questions and are open-minded. Feel It: We use our empathy and resilience to learn from our mistakes.	Online Natte Y6 M Y6 Que	Safety erhub lind it estion it eel it	-To und contribTo und QuestiTo exprankedTo corTo lea Feel ItTo und if we h. To kno the evi	derstand how to create a positive online reputation. derstand how an information trail is created and how that butes to my digital footprint.& derstand how our digital actions now can impact on our future. on It blore how search engines work and how results are selected and l. nsider the difference between facts and opinions in digital content. rn how to be a discerning consumer of digital content. derstand how to react to concerns online and what help is available ave a concern. w how to gather evidence of online bullying and what to do with dence.		Children complete a range of activities, discussions and quizzes which result in a badge for each unit.
	Recognise unacceptable behaviour online; know how to deal with and report inappropriate content and contact; design and write	Children will explore the world of AR, play, write reviews for AR games and create multi-media content and QR codes to link the physical and digital world.		Making ames	1.Wh 2.Ca 3.Ho 4.Ca	derstand that we can all make a positive difference when it comes inping out bullying. That is AR? In you create a vlog review? In we can we use AR to present our research? In you design and create your own AR content? In you present information using AR?	Augmented reality Bit & bytes Copyright Download Edit Multimedia Plagiarism Podcast Record Score Upload Vlog Vlogger YouTuber	Produce graphics and illustrations as part of a AR exhibition of computer scientists.
	programs and understand computer networks including the internet.	Children will produce their own digital guide to being Maths genius.	Y6.4 Maths Solve It		 1.What is collaboration? 2.How can we create content? 3.How can we share content? 4.How to create screen casts. 5.How to give feedback. 6.How to publish books with book creator. 		Collaboration Feedback New Media Screencast Storyboard	Produce a digital guide.
Summer	Natterhub: Y4 Think it Y4 Question it	Secure It: We ar users of the worl		Online Natte Yr 6 Se	Safety rhub	Secure it To understand how to use, manage and remember passwords. To describe and identify some types of cybercrime.		Children complete a range of activities,

	Y4 Learn it	web who know how to stay secure online. Learn It: We use technology to help us in different ways.	Yr 6 Learn it Yr 6 Do it	Learn It To understand how the internet can be used as a tool for opening our minds. To understand the positive differences technology makes throughout the world.		discussions and quizzes which result in a badge for each unit.
	Music Express Units using Garageband.	Children will learn about what being a music composer means and use Garageband to create their own jingle for an App.	Y5.4 Video Games Music Composer	1.What is a music composer?2.What is a brief?3.How is digital music made?4.What is an audio loop?	App Audio Brief Composer Design Jingle Loop Music Copyright	Compose a jingle for an APP.
be kn w i	Recognise unacceptable ehaviour online; now how to deal with and report inappropriate content and contact.	To improve children's knowledge of the risks of their online lives and develop skills when using online services.	Y6 My Online Life	 Balance it- Online temptations and pressures. Balance it 2 - You decide. Balance IT 3 - Screen time and self-regulation. Balance it 4 Badge roundup 	Empathy Identity Online bullying Password Private Profile Reputation Risks Self-image Trust	