Key Skills

Basic Computer Use /

How a Computer Works,

E-safety, Creating and

Debugging

Computing Curriculum Progression Map

Computing skills should be taught when linked to themes where possible to ensure real world application

Themes are taught on a 2 year rolling programme



NC statutory requirement Skills Knowledge

	EYFS		KS1		LKS2		UKS2	
	Nursery & Reception		Year 1 & Year 2		Year 3 & Year 4		Year 5 & Year 6	
	Year A	Year B	Year A	Year B	Year A	Year B	Year A	Year B
	Autumn:	Autumn:	Autumn: Let's Go	Autumn: Oh I do	Autumn: The Land	Autumn:	Autumn: Extreme	Autumn: Myths
	Harvest/Light	Colours/Let's	on Safari	Like to be Beside	that Time Forgot	Egyptians	Earth	and Minotaurs
	and Dark	Celebrate	Spring: Poles	the Seaside/Then	Spring: Romans	Spring: Over and	Spring: Who	Spring: Out of
	Spring: Winter	Spring: Bears/A	Apart	and Now	Summer:	Under the Waves	Were the	this World
	Wonderland/Supe	Job Well Done	Summer: Around	Spring: Turrets	Rainforests	Summer: WWII	Mayans?	Summer: Circle of
	rheroes	Summer:	the World in 80	and Tiaras		Friend or Foe	Summer:	Life - Vikings vs
	Summer: Big and	Marvellous	Days	Summer: The			Evolution and	Anglo-Saxons
	Small/Summer	Minibeasts/Summ		Secret Garde			Inheritance	
	Fun	er in the Garden						
Basic Computer	Learning how to turn on a monitor, tower, laptop, iPad and understanding how these are connected. Using the touch screen, cursor and keyboard. Play simple games using the touch screen of an iPad and beginning to get used to the cursor of a computer or laptop.		Start up and shut down devices.	Start up and shut down devices.	Having confidence in their keyboard use and speed, both on iPads and laptops.	Having confidence in their keyboard use and speed, both on iPads and laptops.	Having confidence in cursor and keyboard use and manipulating documents, by	Having confidence in cursor and keyboard use and manipulating documents, by
Use / How a Computer Works			Left and right- clicking the mouse.	Left and right- clicking the mouse.	Logging on and off independently.	Logging on and off independently.	sending, opening, creating and formatting them.	sending, opening, creating and formatting them.
WOIKS			Basic typing and keyboard skills.	Basic typing and keyboard skills.	To analyse data on Google Sheets and	To work out how a number of games	Creating and editing a webpage	Coding games using HTMLs.
			Researching a topic using the web.	Taking photographs.	Google forms. Understand	have been coded. Use sequence,	collaboratively, using HTMLs.	To understand how to know if a source
			Record their voices using an iPad.	To crop, filter and delete photos.	computer networks including the	selection, and repetition in	To solve problems involving searching	of information is reliable or not.
			To play a coding- based game.	To add photos to albums.	internet; how they can provide multiple services, such as	programs; work with variables and various forms of	and sorting information.	Understand computer networks
			To work out a	To learn basic skills on Google Sheets,	the world wide web; and the	input and output.	Use sequence, selection, and	including the internet; how they
			sequence of instructions (algorithm) to find	such as inputting and filtering.	opportunities they offer for	Plan and create own algorithms.	repetition in programs; work with variables and	can provide multiple services, such as the world wide web;

			their way to an	To use simple inputs	communication and	Use search	various forms of	and the
			objective.	and outputs on	collaboration.	technologies	input and output.	opportunities they
			12,001110.	Scratch.	Johabor arron,	effectively,	par ana ourpur.	offer for
			Understand what	ociaicii.	Use search	appreciate how	Understand	communication and
			algorithms are; how	Recognise common	technologies	results are selected	computer networks	collaboration.
				uses of information	effectively,	and ranked, and be	including the	Collaboration,
			they are implemented as	technology beyond	appreciate how	discerning in	including the internet; how they	
					1.1	3		
			programs on digital	school.	results are selected	evaluating digital	can provide multiple	
			devices; and that		and ranked, and be	content.	services, such as	
			programs execute		discerning in		the world wide web;	
			by following precise		evaluating digital		and the	
			and unambiguous		content.		opportunities they	
			instructions.				offer for	
							communication and	
			To know how stop-				collaboration.	
			motion animations					
			are made.				Use search	
							technologies	
							effectively,	
							appreciate how	
							results are selected	
							and ranked, and be	
							discerning in	
							evaluating digital	
							content.	
	5) (1		100	-4	1.14			
	EYF		KS1		LKS2		UKS2	
		Reception		& Year 2		& Year 4		& Year 6
	Year A	Year B	Year A	Year B	Year A	Year B	Year A	Year B
	ten to,	Listen to,	To know some of	To know some of	To understand some	To understand some	To know what you	To know what you
unde	derstand and	understand and	the dangers online.	the dangers online.	of the negative	of the negative	should and should	should and should
G asfata	cuss an e-safety	discuss an e-safety			behaviours online.	behaviours online.	not post online.	not post online.
	ory each term to	story each term to	To know who to tell	To know who to tell				
	roduce the key	introduce the key	if something does	if something does	To tell others how	To tell others how	To begin to	To begin to
ideas	eas.	ideas.	not feel right.	not feel right.	to stay safe online.	to stay safe online.	understand what is	understand what is
							meant by a digital	meant by a digital
			To know what some	To know what some	To know how to	To know how to	footprint.	footprint.
			of our personal	of our personal	make a safe profile.	make a safe profile.		
			information is and	information is and	·	·	To learn about	To learn about
			the importance of	the importance of	To start to learn	To start to learn	terms, such as	terms, such as
			not sharing it.	not sharing it.	about what is safe	about what is safe	catfishing and	catfishing and
1			j	J				
					to post online.	to post online.	scamming, and some	scamming, and some
			Use technology	Use technology	to post online.	to post online.	scamming, and some of the reasons a	scamming, and some of the reasons a

			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.	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.	report negative behaviour. Use technology safely, respectfully and responsibly. Recognise acceptable/unaccep table behaviour.	report negative behaviour. Use technology safely, respectfully and responsibly. Recognise acceptable/unaccep table behaviour.	To know a number of ways to report negative behaviour. Identify a range of ways to report concerns about content and contact.	To know a number of ways to report negative behaviour. To learn about the importance of password security. Identify a range of ways to report concerns about content and contact.
		/FS Reception	KS1 Year 1 & Year 2		LK52 Year 3 & Year 4		UKS2 Year 5 & Year 6	
	Year A	Year B	Year A	Year B	Year A	Year B	Year A	Year B
_		making) on media such	Create Google Slide presentations.	To be more confident with filming skills.	To present information in a number of different	To create their own micro:bit project.	Creating 3D visual spaces.	To write instructions for and then publish their
Creating			To insert images in to a Google Slide presentation. To create and test	To record audibly as well as visually. To create a table on	ways, including Google Sites. To create geometric Art on a number of	To program an animation on Scratch. Select, use and	Experimenting with visual reality design and artificial intelligence.	own game. To add narration to their own game.
			sequences on a Beebot programme App. To create a Stop	Google Sheets. To create rhythmic and repeating	programs. To display findings in a number of ways,	combine a variety of software (including internet services) on a range of digital	To amalgamate original video footage with other sources of media.	To use their knowledge of micro:bit to program a toy.
			Motion animation on the iPad. To create Art using a range of	create simple programs.	for example graphs and charts. To plan and create a survey on Google	devices to design and create a range of programs, systems and content that accomplish	Select, use and combine a variety of software (including internet services)	Select, use and combine a variety of software (including internet services)
			programmes based on a number of famous artists.	Use technology purposefully to create, organise, store, manipulate	Forms. Select, use and combine a variety of	given goals, including collecting, analysing, evaluating and presenting data and	on a range of digital devices to design and create a range of programs,	on a range of digital devices to design and create a range of programs,
			Create simple programs. Use technology	and retrieve digital content.	software (including internet services) on a range of digital devices to design	information.	systems and content that accomplish given goals, including collecting, analysing,	systems and content that accomplish given goals, including collecting, analysing,
			purposefully to create, organise, store, manipulate and retrieve digital		and create a range of programs, systems and content that accomplish		evaluating and presenting data and information.	evaluating and presenting data and information.

			content.		given goals, including collecting, analysing, evaluating and			
					presenting data and information.			
	EY	'FS	KS1		LKS2		UKS2	
		Reception		& Year 2		& Year 4		& Year 6
	Year A	Year B	Year A	Year B	Year A	Year B	Year A	Year B
Debugging	Practising and learnin something goes wrong way you expect it to.	•	To work out the rules (algorithms) for a range of different games. To edit a Stop Motion animation. Debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	To experiment with rhythmic sounds and patterns. To edit images and audio clips. To amalgamate pieces using images and sounds. Debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Editing and improving a Google Slide presentation by changing backgrounds and fonts for example. To review and edit pieces made by myself and others. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	To modify games, including ones made by themselves and their peers. Editing and putting together video and audio. Editing and recording digital music. Identify and correct a number of different types of bugs. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	To solve problems involving VR design and AI. To critically evaluate a program made for its intended audience. To debug their own game script. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	To create, test and improve games made by themselves and others. To encrypt and decrypt messages in ciphers and codes. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.