

Computing Progression Document

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Using devices			
			To know that closing the lid of a	To know that logging off is			
			laptop does not shut it down	different to shutting down			
		To know that a keyboard is used		To know that some punctuations			
ge		for typing		needs the shift key			
Knowledge		7,56		,			
, S		to understand that text can be	To know that font styles are				
		created on a computer	similar to handwriting styles				
		To know that digital documents					
		can be printed					
	To be able to take photos on an	To be able to open an app on an					
	iPad	iPad					
			To be able to switch on a laptop				
			To be able to follow instructions		To be able to shut down a laptop		
			to shut down a laptop				
			To be able to follow instructions	•			
			to log into a laptop	using a given login			
					To be able to log out of a laptop		
				to log out of a laptop			
		To be able to use the touchpad					
		to move the cursor on screen					
		To be able to use click and drag	To be able to use click and drag				
		to move items	to select a section of text.				
			To be able to use caps lock for	To be able to type capital letters			
			capital letters	using the shift key			
		To be able to type a full stop	To be able to type . and ,	To be able to type ? ! and "		To be able to type (); : and -	
		To be able to open windows				,, ,,,	
		explorer from the task bar					
		To be able to follow instructions		To be able to find a file from a			
S		to find a file in windows explorer		known location in windows			
Skills				explorer			
"		To be able to follow instructions					
		to open a document from					
		windows explorer					
			To be able to click on the	To be able to open a known	To be able to open an		
		to click on the word icon to open		application from the desktop	application from the desktop		
		a new word document	PowerPoint document				
I			1	1	Į.		

	To be able to follow instructions to save a word file in the documents folder To be able to re-save a word document using the save icon	To be able to click on the publisher icon to open a new document To be able to follow instructions to save a Microsoft Office file in the documents folder To be able to use the save icon to re-save a document in Microsoft Office	To be able to follow instructions to re-save a document with a different name.	To be able to save a Microsoft office file in the documents folder	To be able to re-save a document with a different name.	To be able to save a file in a specified folder
			To be able to log into a given tinkercad account	To be able to log into their school google account		
			Computer Science			
	To know that algorithms are implemented as programs on a range of digital devices.	To understand what an algorithm is	To understand that a program is a sequence of statements written in a programming language			
To know that some instructions need to be completed in the correct order	To know that algorithms are precise instructions that can be followed			To understand that computer programs consist of statements that perform a task		To understand that apps are computer programs that are developed according to a pl
	To know that programs follow clear instructions			To understand that decomposition can help to solve problems.	To know strategies for testing and debugging computer games	
To know that BeeBots follow the instructions given to them.	To know that you can program a sprite	To understand the commands in Scratch Jr				
		To know the blocks used in Scratch				
					To know that websites are written in HTML	
					To know that HTML gives a web page structure.	To understand how HTML provides structure for web content.
			To understand that computer simulations can represent a range of situations			
			To understand that simulations help us understand difficult concepts			
			To understand that simulations can help people try things quickly and inexpensively			

				To understand that broadcasts can be used to trigger other		To know a range of inputs that computer games can use
				algorithms in scratch.		computer games can use
					To understand that computer programs contain graphics use X	
					and Y coordinates	
				To understand what a variable is and why they are useful	To understand that programs can do different things depending on the value of a	
					variable To understand that some	
					variables can only be true or false (Boolean)	
					To understand that programs can do different things if the	
					value of a Boolean variable is true or false (conditional statements)	
					,	To know the features of a micro:bit
	To be able to plan and test a			to be able to plan and develop	To be able to develop an outline	To be able to plan a simple
To be able to test ideas	simple algorithm			algorithms and programs.	of tasks and activities required to develop a project	website design including htr code for colour names.
To be able to plan what they need to do	To be able to plan a simple algorithm to control a toy.					
	to be able to create a storyboard for a program		To be able to design a simple computer simulation	To be able to design a virtual pet	To be able to develop an algorithm according to a plan.	To be able to develop an appaccording to a plan
	To be able to write a program using a plan					To be able to program an algorithm according to a pla
						To be able to evaluate an apwith consideration to the initial
To be able to follow simple instructions to complete a task	To be able to follow a simple algorithm				To be able to read basic HTML code.	To be able to use html code create a simple website.
					To be able to change an image on a web page.	
To be able to make predictions about what might happen.	To be able to make predictions about an outcome based on a simple algorithm		To be able to use observations to make predictions about a simulation			
To be able to enter commands into a BeeBot	To be able to give instructions to a programmable toy	To be able to write a code in scratch Jr				To be able to use a text-base programming language to w an event driven program
	To be able to program a virtual object to move on-screen	To be able to control a sprite in scratch	To be able to include sound in scratch projects	To be able to code sprites to interact with each other in different ways	To be able to program a screen Turtle to execute a series of statements	

Ī	_ , ,, , , , , ,	To be able to create a simple			To be able to use broadcasts in	To be able to create a game that	
s	To be able to give instructions to complete a task	algorithm			scratch programs	senses events on screen	
Skills						To be able to program statements that make something happen in response to events on screen	To be able to code a program that reacts differently to different inputs
		To be able to program a sprite for a purpose	To be able to write programs that run at the same time to create an effect	To be able to program a simple simulation	To be able to create algorithms for a purpose		To be able to code a micro:bit to make a cutebot move
			To be able to include multiple sprites in a project	To be able to program a sequence of instructions that create visual effects			To be able to code a micro:bit so the cutebot follows an unmarked path.
							To be able to code a micro:bit so the cutebot goes to a specific point
İ							To be able to code a micro:bit to make a cutebot follow a line
			To be able to use repeat blocks to make efficient codes	to be able to use repetition in code		To be able to combine repetition and conditional statements in a program	To be able to program a computer game by sequencing conditional statements
				To be able to explore the effect of changing variables in a simulation	To be able to apply variables to a scratch program	To be able to use computational concepts of sequence, selection, repetition and variables to program a computer game	
	To be able to adapt ideas to solve a problem	To understand that codes can be altered to change what they do	To be able to modify code			To be able alter an algorithm to change to properties of a shape	To understand how changes to codes alter what the user can see and do
			To be able to identify errors in code		To be able to correct errors in codes	To be able to test and debug computer programs	To be able to test and debug the programming for an app
				Digital Media			
		To know what the word icon looks like	To know what the PowerPoint icon looks like To know what the publisher icon		To know what the excel icon looks like		
			looks like To understand that there are different Microsoft office				To know how to select an appropriate Microsoft Office
		To know what the windows	programs				Program Program
		explorer icon looks like To know what the save icon looks like in word	To know what the save icon looks like in Microsoft Office applications				

			To know what the ribbon is in			
			Microsoft office			
			To know that many tools in the			
			ribbon are the same across			
			different Microsoft Office			
			applications			
			To understand how information	To understand how filters can be		
			is organised in a database	used to sort and find information		
				in excel tables		
		 				To know how cells are
						referenced in excel
						To know that excel uses * for
						multiplication and / for division
 						To know that you can enter
						formulae into excel cells
- Be						To understand that
Knowledge						spreadsheets allow
٥						recalculations to be completes
호						quickly and easily
		<u> </u>				
						To understand that
						spreadsheets can be used to
						store numerical data and to
		T				perform calculations
		To know what an eBook is				
						to understand that sound can be
						stored digitally to understand that sounds which
						are stored digitally can be
		 				manipulated To understand what a podcast is
						To understand what a podcast is
		To know what an animation is			To understand what an	
					animation is	
	To know some uses of digital		To know that graphical modelling	To understand that digital tools	To understand that animations	
	drawing tools		software allows users to create	can be used to create images	can be created using digital tools	
	a. a		digital 3D models	our se used to create images	our se oreated asing algreates	
				To understand that vector		
				images are made up of shapes		
				and lines		
				To understand that vector		
		1		images are constructed of layers		
			To understand that graphical			
		<u> </u>	models can be easily changed			
	To be able to add text to a word	To be able to edit text in a	To be able to add and edit text in			
	document	PowerPoint document	Microsoft Office applications			
	To be able to use a keyboard to	To be able to enter text into a				

		To be able to add text boxes in			
Publi		PowerPoint			
		To be able to move text boxes in			
		PowerPoint			
		To be able to resize text boxes in			
		PowerPoint			
To be	e able to add images to	To be able to add images in			
Powe	verPoint	Microsoft Office			
To be	pe able to move images in	To be able to resize images in			
	•	PowerPoint			
		rowerrount			
	e able to change font colour		To be able to change font colour	To be able to choose	
in Po	owerPoint		in Microsoft office	appropriate formatting for a	
				task	
To be	e able to change font size in		To be able to change font size in		
Powe	verPoint verPoint		Microsoft office		
<u> </u>	11 1 1 1 1 1		- 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ne able to change text font in		To be able to change text font in		
Powe	verPoint verPoint		Microsoft office		
		To be able to underline text in	To be able to underline text in	To be able to use some	
		Microsoft office with support	Microsoft office	keyboard shortcuts for	
				formatting text in Microsoft	
				Office (Bold, Underline, Italic)	
		To be able to make text bold in	To be able to make text bold in	, , ,	
		Microsoft office with support	Microsoft office		
		Will support	Wilci OSOIT Office		
		To be able to highlight text in	To be able to make text italic in		
		Microsoft office with support	Microsoft office		
		To be able to make text italic in	To be able to highlight text in		
		Microsoft office with support	Microsoft office		
To by	e able to format the	Will support	WICLOSOFT OFFICE		
	kground of slides in				
	J				
	verPoint	To be able to some and an extra			To be able to use a setupl Co
		To be able to copy and paste text			To be able to use control C and
		between documents.			control V to copy and paste
	lications				between documents
		To be able to copy and paste	To be able to copy images from a		
	opy and paste an image in	images between documents.	web browser and paste it into		
office	ce applications		Microsoft Office programs		
		To be able to hide and pin the			
		ribbon in Microsoft Office			
		applications			
				To be able to include animations	
				in PowerPoint	
		To be able to enter data into a	To be able to enter text into an		To be able to enter simple
		pre-formatted table in excel	excel cell		calculation formulae into excel
					such as =2+4

				To be able to format data as a		To be able to enter formulae
				table in excel		that refer to other cells in excel
						such as =A2+B2
				To be able to use excel table		
				tools to put data into order		
				To be able to use excel table		
				filters to answer simple		
				questions about their data		
						To be able to make an audio
						recording
						To be able to edit an audio
						recording
						To be able to trim a voice clip To be able to use multiple audio
						clips within a project
		To be able to create a stop-			To be able to create a digital	
		motion animation			animation	
		To be able to create a			To be able to create a	
		storyboard for a short stop			storyboard a short animation	
		motion animation				
					To be able to create a scene for	
					a digital animation	
		To be able to use a storyboard to			To be able to use a storyboard	
		create a stop-motion animation			to create a short animation	
	To be able to use simple digital					
	mark-making tools					
	To be able to use shape and fill					
	tools					
	To be able to recreate a given					
	digital image					
	To be able to use a range of		To be able to use graphical	To be able to design and create		
	digital drawing tools		modelling software to create a	vector images.		
			digital 3D model			
			To be able to evaluate a digital	To be able to evaluate images		
			3D model	and make improvements.		
			To be able to use graphical	To be able to use digital tools to		
			modelling software to improve a	improve detail in images		
			digital 3D model			
	-		nputers, Systems and Networks	 		
	To know what technology and	To understand how information				
	information technology are	technology has changed over				
	to know that information	time				
	to know that information	To know how information				
	technology can be used for	technology is used today				
	many different things	To know some input and subsub				
		To know some input and output devices				
	To know how to use devises in					
	To know how to use devices in school	To understand how to use				
	SCHOOL	technology safely	1	1	<u> </u>	1

	To know what a computer network is		To understand that a computer network is a group of computers that are connected.
	To know the parts of a computer network and their roles		
	to know how different parts of the network are linked and information is exchanged.		To know that a router sends/receives information as packets of data
To know what the world wide web is and how it had developed over time	To know that the internet is many computers that are connected	To understand that the world wide web is one of the services offered on the internet	To understand that the internet in many networks that are connected to each other.
	To know that devices have a unique address		To know that computers connected to the internet have their own address.
		To understand that the world wide web consists of many websites and web pages that can be accessed using the internet	To understand that websites can be traced to a particular webserver.
		To know that websites are written in HTML	
		To know that HTML gives a web page structure.	To understand how HTML provides structure for web content.
	To know the main features of web browsers		
	To know that you can move around the web using hyperlinks		
	To know the difference between a search bar and the address bar		
To know what a search engine is	To understand how to find information using a search engine		To know that internet search engines maintain, and rank, a list (or index) of other websites available on the world wide web.
To know a safe search engine			
	To understand that not all information on the web is		
	reliable.		
	To understand that copyright is		
	and author's right of ownership		
To know how to stay safe online			
	safe and credible websites	To an done and the total and the	
		To understand that signalling is a form of communications,	

Knowledge

						To understand that messages	
					•	can be sent and received	
						secretly	
					To know what e-mail is		
						To understand the importance	
						of cryptography historically and	
						today	
					To know the basic concept of AI		To understand what Artificial Intelligence is
					To understand that computers		To understand that AI systems
					are taught to learn		are trained using Machine
					To lead this substantial		Learning.
					To know this what machine learning is		
					To understand that computers		To understand the effect training
					learn using information given to		data has on a machine learning
					them by people		system
					To understand the importance		
					of using high quality data to train		
					and test a machine learning		
					model		
							To understand the output from
							an AI model is a prediction
					To know some uses of AI in		To understand the role AI plays
					everyday life		in our lives
			To be able t	to enter a URL into			
			the address	s bar			
		To be able to use hy	perlinks to To be able t	to use basic			
		navigate a website	navigation s	skills to browse the			
			world wide	web			
		To be able to use w	ehsites to				
		find information	ebsites to				
		To be able to enter	a guery into				
		a search engine	. 4 1				
		To be able to use a	search To be able t	to select key words			To be able to use clear search
		engine to find the a		•			terms when conducting searches
Skills		questions					in order to find things out.
Ŋ		4					
						To be able to encode and	
						decode a simple message,	
					To be able to read an e-mail		
					To be able to write an email to		
					another person		
					To be able to add attachments		
					to emails		
	L	I		<u> </u>	Co Cinais		

		To be able to use chat features to work collaboratively with	
		others	