STRATFORD-SUB-CASTLE PRIMARY SCHOOL COMPUTING PROGRESSION KNOWLEDGE - SKILLS - VOCABULARY

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	I understand I need to	I know that not all websites	I know what actions could	I can identify comments or	I can explain sensible e-	I can explain why someone
	follow certain rules to	are equally good sources of	be taken if I am	messages that may be	safety rules for the	might have an online
	remain safe when visiting	information.	uncomfortable or upset	hurtful to others	classroom.	friendship;
	places online.		online e.g. Report Abuse			I can explain what the
		I know that if I put	button.	I can explain why it may be	I can discuss my personal	SMART acronym means
	I am beginning to	information online it leaves		dangerous to share private	use of the Internet and	I can explain what a
	understand that if you	a digital footprint or "trail"	I can talk about what games	information	choices I make	stereotype is and compare
	create something online,	& I need to manage it so it's	I enjoy playing and what			gender stereotypes, linked
	you own it.	not hurtful.	good choices are when	I can explain how to be a	I know how to protect	to cyber-bullying
			playing games e.g. content,	good digital citizen	devices from virus threats.	
>	I know that many websites	I can stay safe online by	screen time.			I can look in the address bar
	ask for information that is	choosing websites that are		I can tell someone else	I know the importance of	of a website so check for
E-SAFETY	private & can discuss how	good for me to visit & not	I can comment and provide	more than one way to stay	keeping an adult informed	security
ம்	to responsibly handle such	inappropriate sites.	positive feedback on the	safe online	about what I am doing	
	requests.		work of classmates in		online, and how to report	I can identify the lock
		I can explore what cyber-	school or online, or the	I can edit their own	concerns.	symbol in an address bar
	I can use the internet safely	bullying means & what to	work of others online.	messages and comments to		
	as a part of my daily life.	do when I encounter it.		make sure they are kind	I can use online	I can use online
			I can agree sensible e-safety		communication tools safely	communication tools safely
	I can tell an adult when I	I can discuss criteria for	rules for the classroom.		and responsibly e.g. blogs,	and responsibly e.g. blogs,
	think I might be unsafe	rating the information on a			messaging.	messaging.
	online.	website.	I can choose a secure			
			password for age-			
			appropriate websites.			
	e-safety	e-safety	e-safety		virus	
	online	online	online		communication	
	email	appropriate	abuse		responsible	
	alphabetical	inappropriate	report		appropriate	
	private	cyber-bullying	content		inappropriate	
VOCABULARY	responsible	digital footprint	blog		private	
L,	information	keyword	feedback		cyber-bullying	
AB		private				
l ő		responsible				
		information				

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	I can recognise the uses of	I understand that keyword	I can use a class blog to share	I can appreciate the benefits of	I can identify different parts of	I can describe different services
	technology in my home and	searching is an effective way to	information and talk about	ICT to send messages and to	the Internet.	provided by the Internet & how
	my community.	locate online information	who can see it, and how to	communicate.		information moves around the
			communicate safely and		I can use a search engine	Internet.
	I understand that there are	I know how to select keywords	respectfully	I can talk about the school	using keyword searches.	
	online tools that can help me	to produce the best search		network & the different		I can describe how search
	create and communicate	results.	I can find relevant information	resources I can access,	I can compare the results of	results are selected & ranked.
		. 6 1.6	by browsing a menu.	including the Internet.	different searches.	
	I can explore how email can be	I can find information on a				I can acknowledge who
	used to communicate with real	website.	I can search for an image, then	I can use a search engine to	I can decide which sections	resources belong to that they
	people within their schools,	Lanca altala lindra tra a conductor	copy and paste it into a	find a specific website.	are appropriate to copy and	have found on the internet.
	families & communities.	I can click links in a website.	document.	Lean use note taking skills to	paste from at least two web	I can contribute to discussions
	I know that directory sites with	I can print a web page to use	I can use 'Save picture as' to	I can use note-taking skills to decide which text to copy and	pages.	online.
ONLINE	alphabetical listings offer one	as a resource.	save an image to the	paste into a document.	I can save stored information	online.
	way to find things on the	as a resource.	computer.	paste into a document.	following simple lines of	I can use a search engine using
ō	Internet.	I can send and reply to	computer.	I can use tabbed browsing to	enquiry.	keyword searches.
	internet.	messages sent by a safe email	I can copy and paste text into a	open two or more web pages	Criquiry.	Reyword scarenes.
	I recognise what an email	partner (within school).	document.	at the same time.	I can download a document	I can use complex searches
	address looks like.	partner (within sensor).	document.	at the same time.	and save it to the computer.	using such as '+' 'OR' "Find the
			I am beginning to use note	I can open a link to a new		phrase in inverted commas".
	I can join in sending a class		making skills to decide what	window.	I can use instant messaging to	
	email.		text to copy.		communicate with class	I can conduct a video chat with
				I can open a document (PDF)	members.	people in another country or
	I can use the @ key and type		I can use the email address	and view it.		organisation.
	an email address		book.		I can conduct a video chat	
					with someone elsewhere in	
	I can print out a page from the		I can open and send an		the school or in another	
	internet.		attachment.		school.	
	email	email	browser	search engine	download	discussion
	communicate	address	сору	keyword	upload	comment
>	internet	address bar	paste	document	document	complex search
٩R	inbox	search engine	document	window	information	keyword
l l	send	website	text	tabs	video chat	
VOCABULARY	receive	information	image	browser	save	
00	reply	source	attachment	message applications	retrieve	
>	search engine	link	email		open	
	print		blog			
	Prince		, Siob			

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
PROGRAMMING	I know that computing devices work because they are given instructions I can physically follow & give instructions to move around a space I can explore outcomes when buttons are pressed in sequences on a robot I am beginning to use software to create movement & patterns on a screen I can use the word debug and correct any mistakes when programming a floor robot I can predict what will happen for a short sequence of instructions in a program I can create a simple series of instructions using forwards, backwards, left and right and record them I can put two instructions together to control a programmable toy. I can plan and test a Bee-bot journey.	I can talk about similarities & differences between floor robots and logo on screen I can physically follow and give others forward, backward & turn (right-angle) instructions I can write an algorithm to achieve a purpose I can plan and enter a sequence of instructions to achieve an algorithm, with a robot specifying distance & turn and drawing a trail I can explore outcomes when giving instructions in a simple Logo program I can watch a Logo program execute & debug any problems I can predict what will happen & test results of simple programs	I can plan & enter a sequence of instructions on a robot specifying distance & turn to achieve specific outcomes, debug the sequence where necessary. I can test, improve and debug programmed sequences. I can type simple logo commands to achieve outcomes. I can explore outcomes when giving sequences of instructions in Logo software. I can use 'repeat' commands to achieve solutions to tasks. I can solve open-ended problems with a floor robot & Logo including creating simple regular polygons, making sounds & planning movements such as a dance. I can create an algorithm to tell a joke or a simple story. I can sequence pre-written lines of programming into order I can talk about algorithms planned by others & identify any problems & the expected outcome.	I can explain how an algorithm works I can explain the links between programming and the use of algorithms to work in Maths, Science & D&T. I can create & edit procedures typing logo commands including pen up, pen down & changing the trail of the turtle. I can use sensors to 'trigger' an action such as turning the lights on using Probot if it 'goes through a tunnel', or reversing a sprite if it touches something. I can solve open-ended problems with a floor robot, Logo & other software using efficient procedures to create shapes & letters. I can create an algorithm & a program that will use a simple selection command for a game. I am beginning to correct errors (debug) as I program devices & actions on screen, & identify bugs in programs written by others. I can use an algorithm to sequence more complex programming into order I am beginning to experiment with variables to control models.	I can identify different parts of computing devices. I can talk about procedures as parts of a program I understand input and output. I can explore procedures using repeat to achieve solutions to problems with Logo & a floor robot I am beginning to refine procedures to improve efficiency I can use a variable to replace number of sides in a regular shape I can explore instructions to control software or hardware with an input & using 'if then' commands I can explore a computer model to control a physical system, e.g. light sensor that then triggers a light to turn on or off I can change inputs on a model to achieve different outputs I can identify difficulties & articulate a solution for errors in a program I can use group commands as a procedure to achieve a specific outcome within a program I can write down the steps required (an algorithm) to achieve the outcome that is wanted and refer to this when programming. I can combine sequences of instructions and procedures to turn devices on or off. I can use ICT to measure sound or light or temperate using sensors.	I can describe different parts of a computing device & how it connects to the Internet. I understand how sensors can be used to measure input in order to activate a procedure or sequence & talk about applications in society I can connect a computing device to a keyboard, mouse or printer. I can record in some detail the steps (the algorithm) that are required to achieve an outcome & refer to this when programming I can predict the outputs for the steps in an algorithm I show increased confidence in the process: plan, program, test & review a program I can write a program which follows an algorithm to solve a problem for a floor robot or other model I can write a program which follows an algorithm to achieve a planned outcome for appropriate programming software I can control on screen mimics & physical devices using one or more input & predict the outputs I can create variables to provide a score/trigger an action in a game I can link errors in a program to problems in the original algorithm. I can explore 'what if' questions by planning different scenarios for controlled devices.
VOCABULARY	instruction outcome software program algorithm plan forwards backwards left right	algorithm instruction sequence input output plan predict debug hardware	algorithm sequence debug programming command repeat code software hardware	algorithm procedure command identify efficient sensor variable control	variable control sprite instructions procedures input output algorithm	input output sequence modal physical variable outcome error algorithm

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	I can record my own voice and play back to an audience.	I can use an increasing variety of tools and effects in paint programs and talk about my choices.	I can explore & begin to evaluate the use of multimedia to enhance communication.	I know how to use a spell check. I can explore how multimedia can	I know how to use text and video editing tools in programs to refine their work.	I know to 'save as' gif wherever possible to make the file size smaller (for emailing or downloading).
	I can create sounds and simple music phrases using ICT tools.	I can use templates to make electronic books individually and in	I can create & begin to edit presentation documents and text,	create atmosphere & appeal to different audiences	I can select an appropriate ICT or online tool to create and share	I can identify the purpose for selecting an appropriate online tool.
	I can add text and images to a template document using an image & word bank	pairs. I can explore the effects of sound	experimenting with fonts, size, colour, alignment for emphasis & effect.	I can confidently in create and modify presentation documents to achieve a specific purpose.	I can explore the effects of	I can discuss audience, atmosphere and structure of a presentation or video and evaluate it
	I can use index fingers (left and right hand) on a keyboard to build	and music in animation and video. I can create my own documents,	I can use a range of effects in art programs including brush sizes,	I can use art programs & online tools to modify photos for a specific	multimedia (photos, video, and sound) in a presentation or video and show how they can be	I can collect information and media from a range of sources (considering
	words and sentences, and word process my own ideas	adding text and images with support.	repeats, reflections I can explore the use of video,	purpose using a range of effects. I can explore the use of video,	modified. I am developing the use of	copyright issues) into a presentation for a specific audience.
	I can take photographs, video and record sound to record learning	I am beginning to touch type and locate keys on the keyboard	animation & green screening. Use ICT tools to create musical phrases.	animation, & green screening for a specific audience.	transitions and hyperlinks to enhance the structure of presentations.	I can confidently use sound, images, text, transitions, hyperlinks and HTML code effectively to create a sophisticated multimedia presentation
	experiences. I can print out a photograph from	independently to word process. I can use the RETURN/ ENTER key.	I can touch type I can amend text by highlighting &	I can use ICT tools to create music phrases for a specific purpose I can use a keyboard effectively,	I can use a wide range of effects in art programs and online tools, discussing my choices and their	I can store presentations and videos online where they can be accessed by
DIA	a camera with help. I am beginning word process ideas	I can use SHIFT & CAPS LOCK to enter capital letters.	using SELECT/ DELETE & COPY/ PASTE.	including the use of keyboard shortcuts.	effectiveness.	themselves and shared with others. I can evaluate the effectiveness of my
MULTIMEDIA	using a keyboard. I can use the spacebar, back space,	I can use DELETE & BACKSPACE buttons to correct text.	I can evaluate my work and consider how it can be improved for effectiveness.	I can use font sizes & effects such as bullet points appropriately.	I can listen to streaming audio such as online radio.	own work and the work of others. I can present a film for a specific audience and then adapt same film for a
ML	enter, shift and arrow keys. I can left click to open software	I can create, edit and save text documents.	I can review images on a camera and	I can look at my own and a friend's	I can download and listen to podcasts.	different audience. I can confidently choose the correct
	and select relevant tools.	I can take and save photographs,	I can download images from a	work and provide feedback that is constructive & specific.	I can produce and upload a podcast.	page set up option when creating a document.
	I can use simple drawing software to create an image.	video & record sound to capture learning.	I can use photo editing software to	I can capture images using different hardware including webcams, screen capture, scanning and visualisers	I can manipulate sounds using software such as Audacity.	I can confidently use text formatting tools, including heading and body text.
		I am beginning to use text, pictures and animation to make a simple slide show.	crop photos and add effects. I can manipulate sound when using simple recording story boarding.	I can copy graphics from a range of sources and paste into a desktop publishing program.	I can select music from open sources and incorporate it into multimedia presentations.	I can use the 'hanging indent' tool to help format work where appropriate (e.g. a play script).
		I can use the shape tools to draw	I can create a presentation that moves from slide to slide and is	I can create a lengthy presentation that moves from slide to slide and is aimed at a specific audience	I can create and edit a simple film and consider the audience it is for	I can explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc.)
		I can insert/delete a word using the mouse and arrow keys.	aimed at a specific audience I can combine text, images and	I can insert sound recordings into a multimedia presentation	I can make a home page for a website that contains links to other pages.	I can add special effects to alter the appearance of a graphic.
		I can highlight text to change its format (B, U, I).	sounds and show awareness of audience.		I can use the word count tool to check the length of a document.	I can make an information poster using their graphics skills to good effect
			I can manipulate text, underline text, centre text, change font and size and save text to a folder.			

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	sound	tool	multimedia	atmosphere	transition	graphics
	music	effect	communication	modify	hyperlink	.gif
	video	template	presentation	effect	editing tools	formatting
	photograph	animation	font	green screen	streaming	indent
₹	record	video	alignment	shortcut	download	copyright
VOCABULARY	playback	text	evaluate	multimedia	link	access
	delete	word process	effective	spellcheck	homepage	
\ V	save	create	review	hardware	produce	
>	tool	edit	amend	export	podcast	
	keyboard	save	download		export	
	type	capture	crop			
	spacebar	highlight	manipulate			
		insert	software			
	I know how data is	I can use microscopes or	I can find out information	I know what a spreadsheet is.	I can collect and record	I can use the whole data
	represented digitally.	other devices to capture	from a pre-prepared		information using	process – generate, process,
		and save magnified images.	database, asking	I know how to enter data,	spreadsheets and databases	interpret, store, and present
	I can contribute to and		straightforward questions.	highlight it and make bar charts in spreadsheet	I can carry out complex	information – realising the need for accuracy and checking
	interpret a pictogram.	I can ask questions and		software.	searches (e.g. using and/or; ≤	plausibility.
		consider how they will	I can contribute towards a	Software.	/≥)	plausionity.
	I can enter information into	collect information.	database.	I can plan and create a	, ,	I can select appropriate data
	a template to make a			database to answer questions.	I can solve problems and	tool.
	graph.	I can collect data, generate	I can construct and use a		present answers using data	
		graphs and charts to find	branching database.	I can identify different types of	tools.	I can identify and present
	I can talk about the results	answers.		data.	Language information and	results.
	shown on a graph.		I can record data in a	I can ask questions carrying	I can nalyse information and question data.	I can interrogate a database,
⋖		I can save & retrieve the	variety of ways.	out simple searches on a	question data.	refining searches to provide
DATA		data to show to others.		database.	I can identify poor quality	answers to questions.
			I can present data for		data.	•
		I can create paper/ object	others.	I can identify inaccurate data.		I can plan investigations using
		decision trees & explore a			I can select appropriate use of	the outcomes from a data
		branching database.	I can use a data logger to	I can present data in	a data logger for an	logger to show findings
			monitor changes and talk	appropriate format for an	investigation and interpret the	I can collect live data using data
		I can investigate different	about the outcomes seen	audience.	findings.	logging equipment.
		types of digital data e.g.		I can use a data logger to	I can create a formula in a	10881118 equipment.
		online encyclopaedias	I can input data into a	record and compare individual	spreadsheet and then check	I can identify data error,
			prepared database.	readings.	for accuracy and plausibility.	patterns and sequences.
		•	I can sort and search a	I can use and explain terms	I can search databases for	I can use the formulae bar to
			database to answer simple	'cells', 'rows' and 'columns'.	information using symbols	explore mathematical
			questions.		such as = > or	scenarios.

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	data	microscope	database	accurate	spreadsheet	generate
	interpret	magnified	data logger	inaccurate	database	process
_	information	image	monitor	readings	complex search	plausibility
ARY	pictogram	information	outcomes	record	analyse	interrogate
BUL	graph	generate		spreadsheet	poor quality	live data
<	result	chart		highlight	appropriate	data error
00/		save			interpret	formulae bar
		retrieve			formula	
		branching database			accuracy	
		digital data				