	Key Stage 1 Skil	Key Stage 1 Skills		Lower Key Stage 2 Skills		Upper Key Stage 2 Skills	
	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5	End of Year 6	
	Expectations	Expectations	Expectations	Expectations	Expectations	Expectations	
ASPECT	Average age	Average age	Average age 8years 6	Average age 9 years	Average age 10 years 6	Average age 11 years 6	
	6yrs 6months	7years 6	months	6 months	months	months	
		months					
E - Safety	Understand	Stay safe	Agree sensible e-safety r	ules for the classroom.	Agree sensible e-safety rules	for the classroom.	
	they need to	online by	Choose a secure passwo	rd for age-appropriate	Discuss their own personal u	se of the Internet and	
	follow certain	choosing	websites.		choices they make Discuss ho	ow to protect devices from	
	rules to remain	websites that	Discuss what actions cou	ıld be taken if they are	virus threats.		
	safe when	are good for	uncomfortable or upset	online e.g. Report Abuse	Discuss the importance of ke	eping an adult informed	
	visiting places	them to visit &	button.		about what you're doing onli	ne, and how to report	
	online.	not	Talk about what games t		concerns.		
	Begin to	inappropriate	what good choices are w	hen playing games e.g.	Explore using the safe and re		
	understand	sites.	content, screen time.		communication tools e.g. blo	gs, messaging.	
	that if you	Explore what	Use a class blog to share				
	creative	cyber-bullying	about who can see it, an	d how to communicate			
	something you	means & what	safely and respectfully				
	own it.	to do when	Comment and provide p				
	Learn that	they	work of classmates in scl	nool or online, or the			
	many websites	encounter it.	work of others online.				
	ask for	Know that if					
	information	they put					
	that is private	information					
	& discuss how	online it leaves					
	to responsibly	a digital					
	handle such	footprint or					
	requests.	"trail" & they need to					
	Explore how email can be						
	used to	manage it so it's not hurtful.					
	communicate	Understand					
	with real	that keyword					
	people within	searching is an					
	their schools,	effective way					
	their schools,	to locate					
		to locate					

	families & communities. Learn that directory sites with alphabetical listings offer one way to find things on the Internet.	online information & how to select keywords to produce the best search results. Discuss criteria for rating informational websites a site. Realise that not all websites are equally good sources of information.				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Programming	Physically follow & give each other instructions to move around Explore outcomes when buttons are pressed in sequences on a robot Begin to use software to create movement &	Physically follow and give each other forward, backward & turn (right- angle) instructions Articulate an algorithm to achieve a purpose Plan and enter a sequence of instructions to	Plan & enter a sequence of instructions on a robot specifying distance & turn to achieve specific outcomes, debug the sequence where necessary. Test & improve / debug programmed sequences. Begin to type logo commands to achieve outcomes.	Create & edit procedures typing logo commands including pen up, pen down & changing the trail of the turtle. Use sensors to 'trigger' an action such as turning the lights on using Probot if it 'goes through a tunnel', or reversing if it touches something. Solve open-ended problems with a floor	Explore procedures using repeat to achieve solutions to problems with Logo & a floor robot Talk about procedures as parts of a program Refine procedures to improve efficiency Use a variable to replace number of sides in a regular shape Explore instructions to control software or hardware with an input & using if then commands	Record in some detail the steps (the algorithm) that are required to achieve an outcome & refer to this when programming Predict the outputs for the steps in an algorithm Increase confidence in the process to plan, program, test & review a program Write a program which follows an algorithm to solve a problem for a floor robot or other model

	patterns on a screen Begin to identify an algorithm to achieve a specific purpose Execute a program on a floor robot to achieve an algorithm Use the word debug to correct any mistakes when programming a floor robot Begin to predict what will happen for a short sequence of instructions in a program	achieve an algorithm, with a robot specifying distance & turn and drawing a trail Explore outcomes when giving instructions in a simple Logo program Watch a Logo program execute & debug any problems Predict what will happen & test results Talk about similarities & differences between floor robots and logo on screen	Explore outcomes when giving sequences of instructions in Logo software. Use repeat to achieve solutions to tasks. Solve open-ended problems with a floor robot & Logo including creating simple regular polygons, making sounds & planning movements such as a dance. Create an algorithm to tell a joke or a simple story. Sequence pre-written lines of programming into order Talk about algorithms planned by others & identify any problems & the expected outcome.	robot, Logo & other software using efficient procedures to create shapes & letters. Experience a variety of resources to extend knowledge & understanding of programming. Create an algorithm & a program that will use a simple selection command for a game. Begin to correct errors (debug) as they program devices & actions on screen, & identify bugs in programs written by others. Use an algorithm to sequence more complex programming into order Link the use of algorithms to solve problems to work in Maths, Science & DT.	Explore a computer model to control a physical system Change inputs on a model to achieve different outputs Refine & extend a program Identify difficulties & articulate a solution for errors in a program Group commands as a procedure to achieve a specific outcome within a program Write down the steps required (an algorithm) to achieve the outcome that is wanted and refer to this when programming.	Write a program which follows an algorithm to achieve a planned outcome for appropriate programming software Control on screen mimics & physical devices using one or more input & predict the outputs Understand how sensors can be used to measure input in order to activate a procedure or sequence & talk about applications in society Create variables to provide a score/trigger an action in a game Link errors in a program to problems in the original algorithm.
Multimedia	Year 1 Record their	Year 2 Use an	Year 3 Explore & begin to	Year 4 Explore how	Year 5 Select an appropriate ICT	Year 6 Identify the purpose for
	own voices and play back to an audience.	increasing variety of tools and effects in	evaluate the use of multimedia to enhance communication.	multimedia can create atmosphere & appeal to different audiences	or online tool to create and share ideas.	selecting an appropriate online tool.

Use a video or	paint programs	Create & begin to edit	Be confident in	Explore the effects of	Discuss audience,
stills camera to	and talk about	presentation	creating & modifying	multimedia (photos, video,	atmosphere and structure
record an	their choices.	documents & text,	text & presentation	sound) in a presentation or	of a presentation or video.
activity.	Use templates	experimenting with	documents to achieve	video and show how they	Collect information and
Create sounds	to make	fonts, size, colour,	a specific purpose.	can be modified.	media from a range of
and simple	electronic	alignment for	Use art programs &	Develop skills using	sources (considering
music phrases	books	emphasis & effect.	online tools to modify	transitions and hyperlinks	copyright issues) into a
using ICT tools.	individually	Use a range of effects	photos for a specific	to enhance the stricture of	presentation for a specific
Add text and	and in pairs.	in art programs	purpose using a range	presentations.	audience.
images to a	Explore the	including brush sizes,	of effects.	Use a wide range of effects	Use sound, images, text,
template	effects of	repeats, reflections	Explore the use of	in art programs and online	transitions, hyperlinks and
document	sound and	Explore the use of	video, animation, &	tools, discussing the	HTML code effectively in
using an image	music in	video, animation &	green screening for a	choices made and their	presentations.
& word bank	animation and	green screening.	specific audience.	effectiveness.	Store presentations and
Use index	video.	Use ICT tools to create	Use ICT tools to create	Know how to use text and	videos online where they
fingers (left and	Create own	musical phrases.	music phrases for a	video editing tools in	can be accessed by
right hand) on	documents,	Amend text & save	specific purpose	programs to refine their	themselves and shared
a keyboard to	adding text	changes.	Use a keyboard	work.	with others.
build words	and images.	Use individual fingers	effectively, including	Use online tools to create	Evaluate the effectiveness
&sentences.	Use keyboard	to input text & use	the use of keyboard	and share presentations	of their own work and the
Know when &	to enter text	SHIFT key to type	shortcuts.	and films.	work of others.
how to use the	(index fingers	characters.	Use font sizes & effects		
SPACE BAR	left & right	Amend text by	such as bullet points		
(thumbs) to	hand).	highlighting & using	appropriately.		
make spaces	Know when	SELECT/ DELETE &	Know how to use a		
between words	and how to	COPY/ PASTE.	spell check.		
	use the	Look at own work &	Look at their own, and		
	RETURN/	consider how it can be	a friend's work &		
	ENTER key.	improved for	provide feedback that		
	Use SHIFT &	effectiveness.	is constructive &		
	CAPS LOCK to		specific.		
	enter capital				
	letters. Use				
	DELETE &				
	BACKSPACE				
	buttons to				

Technology in our lives	Year 1 Recognise uses of technology in their homes and in their community. Understand that there are online tools that can help them create and communicate.	correct text. Create sentences, SAVE & edit later. Year 2 Begin to understand there are a variety of sources of information and begin to recognise the differences. Begin to understand what the Internet is and the purposes that it is used for. Understand the different types of content on websites and that some	Year 3 Save work on the school network, on the Internet and on individual devices Talk about the parts of a computer. Use appropriate tools to collaborate on-line. Use appropriate tools to communicate on-line. Use simple search tools and find appropriate websites. Talk about the owner of information online.	Year 4 Talk about the school network & the different resources they can access, including the Internet. Frame questions & identify key words to search for information on the Internet. Consider reliability of information & ways it may influence you. Check who the owner is before copying photos, clipart or text.	Year 5 Identify different parts of computing devices. Identify different parts of the Internet. Choose appropriate tools for communication and collaboration and use them responsibly. Use effective strategies to search with appropriate search engines. Talk about the different elements on web pages. Find out who the information presented on a webpage belongs to.	Year 6 Describe different services provided by the Internet & how information moves around the Internet. Describe different parts of a computing device & how it connects to the Internet. Connect a computing device to a keyboard, mouse or printer. Identify appropriate forms of online communication for different audiences. Use search engines as part of an effective research strategy. Describe how search results are selected & ranked. Acknowledge who resources belong to that they have found on the internet
		things may not be true or accurate.				internet.
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Data Handling	Take photographs, video and record sound	Take and save photographs, video & record sound to	Find out information from a pre-prepared database, asking	Plan and create a database to answer questions.	Collect and record information using spreadsheets and databases	Use the whole data process – generate, process, interpret, store, and present information –

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to record learning	capture learning.	straightforward questions.	Identify different types of data.	Carry out complex searches (e.g. using and/or; ≤ / ≥)	realising the need for accuracy and checking
experiences.	Use	Contribute towards a	Ask questions carrying	Solve problems and	plausibility.
Look at how	microscopes or	database.	out simple searches on	present answers using data	Select appropriate data
data is	other devices	Construct and use a	a database.	tools.	tool.
representing	to capture and	branching database.	Identify inaccurate	Analyse information and	Identify and present
digitally.	save magnified	Record data in a	data.	question data.	results.
Contribute to	images.	variety of ways.	Present data in	Identify poor quality data.	Interrogate a database,
and interpret a	Ask questions	Present data for	appropriate format for	Select appropriate use of a	refining searches to
pictogram.	and consider	others.	an audience.	data logger for an	provide answers to
	how they will	Use a data logger to	Use a data logger to	investigation and interpret	questions.
	collect	monitor changes and	record and compare	the findings	Plan investigations using
	information.	talk about the	individual readings		the outcomes from a data
	Collect data,	outcomes seen			logger to show findings
	generate				
	graphs and				
	charts to find				
	answers. Save &				
	retrieve the				
	data to show				
	to others.				
	Create paper/				
	object decision				
	trees &				
	explore a				
	branching				
	database.				
	Investigate				
	different types				
	of digital data				
	e.g. online				
	encyclopaedias				