	Launton Church of England Primary School Computing Curriculum Provision EYFS
	The computing strand has been removed from the revised EYFS guidance but we will continue to provide children with opportunities to effectiviely prepare children for studying the computing curriculum in KS1.
Year group N	Timers in every area Role play area with a range of technology inclusing electronic toys such as remote controlled cars, walkie talkies and digital cameras. Voice recorders could be used for recording stories or practising giving instructions.
Vocabulary	On Off Switch Backwards Forward Instruction Sound Moving
E safety	Stay on the program that an adult has put on. Be kind to my friends when I use the computer. Adult to select website / program, Education City and other age-appropriate Apps, programs and websites.
Year group R	Timers in every area. Role play area with a range of technology including electronic toys such as remote controlled cars, walkie talkies and digital cameras. Beebots can be programmed to show a journey through a story or a journey round the local area. Practise directional language such as left and right, forwards and backwards. Children should have access to a keyboard and mouse to delop fine motor skills. Voice recorders could be used for recording stories or practising giving instructions and children could progress to making their own videos. A range of books on e-saftey should be available for the children to read and enjoy. Use a range of graphic programs both on tablet and computer to be creative and produce images.
Vocabulary	On Off Switch Backwards Forward Instruction Sound Moving
E Safety	Ask an adult when I want to use a computer. Use programs that I have been shown before. Follow the steps I have been shown to find a new program or website. Talk about the amount of time I spend using a computer, tablet or game device. Be careful with technology devices. Begin to use my username and password card to log on. Adult to lead finding websites / programs, VLE and other age-appropriate Apps, programs and websites.



Launton Church of England Primary School

Computing KS1



	Computing systems and Networks	Creating Media	Programming A	Data and information	Creating media	Programming B
Year group 1	Technology around us Learners will develop their understanding of technology and how it can help them in their everyday lives. They will start to become familiar with the different components of a computer by developing their keyboard and mouse skills. Learners will also consider how to use technology responsibly. They will use the app paintzapp.	Digital Painting Learners will develop their understanding of a range of tools used for digital painting. They then use these tools to create their own digital paintings, while gaining inspiration from a range of artists' work. The unit concludes with learners considering their preferences when painting with and without the use of digital devices.	Moving a Robot Learners will be introduced to early programming concepts. Learners will explore using individual commands, both with other learners and as part of a computer program. They will identify what each command for the floor robot does, and use that knowledge to start predicting the outcome of programs. The unit is paced to ensure time is spent on all aspects of programming, and builds knowledge in a structured manner. Learners are also introduced to the early stages of program design through the	<u>Grouping data</u> This unit introduces learners to data and information. Labelling, grouping, and searching are important aspects of data and information. Searching is a common operation in many applications, and requires an understanding that to search data, it must have labels. This unit of work focuses on assigning data (images) with different labels in order to demonstrate how computers are able to group and present data. During this unit, learners will be logging on to the computers, opening their documents, and saving their	Digital writing Learners will develop their understanding of the various aspects of using a computer to create and manipulate text. They will become more familiar with using a keyboard and mouse to enter and remove text. Learners will also consider how to change the look of their text, and will be able to justify their reasoning in making these changes. Finally, learners will consider the differences between using a computer to create text, and writing text on paper. They will be able to explain which method they prefer and explain their reasoning for choosing this.	Programming animations Learners will be introduced to on- screen programming through ScratchJr. Learners will explore the way a project looks by investigating sprites and backgrounds. They will use programming blocks to use, modify, and create programs. Learners will also be introduced to the early stages of program design through the introduction of algorithms. The children will use scratch Jr.

Vocabulary account, clipart, computer, log on, log off, mouse, password, resize, screen (monitor), software, tool, username, algorithm, Bee-Bot, computing code, computer, log on, log off, mouse, password, resize, screen (monitor), software, tool, username, algorithm, Bee-Bot, computing code, computer program, explain, explore, instructions, predict, tinker, video, algorithm, dec, algorithm, Bee-Bot, computing code, computer program, explain, explore, instructions, predict, tinker, video, algorithm, bug, computer, debug, decompose, device, input, instructions, output, solution, camera, collage, crop, delete, download, drag and drop, editing software, inage, image filter, import, online, photo, presize, save as, search engine, sequence, storage space, visual effects, branching database, categorise, chart, computer, lada, information is. Tell an adult when I see something unexpected or worrying online. Takk about why it's important to be kind and polite. Recognise an age-appropriate website. Agree and foliow sensible e-Safety rules. Follow my teacher's instructions of a avesite. Discuss e-safer visues and explain why they are important. Adult to explain how to find website. Screen or appropriate uses papes to model drawing and painting. Continuous Provision • follow simple oral algorithm set or ease apps to explore mays. Use apps to explore mays. Use and explain why they are important. Adult to explain how to find website. Screen or appropriate use phones skills and practice senser the rules and explain sky topical in the set or working and painting. Provision • follow simple oral algorithms • follow simple oral algorithms • follow simple oral algorithms Provision • follow simple oral algorithms • follow simple oral algorithms • follow simple oral algorithms				introduction of	documents				
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E-Safety Begin to learn my username and password and keep it private. Tell you what personal information is. Tell an adult when I see something unexpected or worrying online. Talk about why it's important to be kind and polite. Recognise an age-appropriate website. Agree and follow sensible e-Safety rules. Follow my teacher's instructions to find a website. Discuss e-safety rules and explain why they are important. Adult to explain how to find websites / program. Ageappropriate Apps, programs and websites. Continuous Provision Games:Use scratch to allow children to create games of their own choice. Art: Use apps for drawing and painting to help children develop ideas. DT:Use apps to model drawing and painting. English: Use apps that develop phonics skills and practise sentence construction. Practise spellings (Spelling Shed) Geography; Use online reosurces and interactive ebooks to research and find eveidence. Maths: Use apps that promote fluency in number and calculation (Numbots) follow simple oral algorithms use a mouse, touch screen or appropriate move and resize images with my follow simple oral screen or appropriate move and resize images with my follow simple oral algorithms use a mouse, touch screen or appropriate move and resize images with my follow simple oral algorithms sort physical objects, take a picture and discuss what I move and resize images with my follow simple oral mages with my<!--</th--><th></th><th colspan="7">nictogram record sort table text computer computer program create data digital content e-document folder list save sequence share</th>		nictogram record sort table text computer computer program create data digital content e-document folder list save sequence share							
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• Tollow simple oral algorithms • create a simple digital collage. • use a mouse, touch screen or appropriate • move and resize images with my • Tollow simple oral algorithms • Identify a chart. • create a simple digital collage. • use a mouse, touch screen or appropriate • move and resize images with my • move and resize images with my • follow simple oral algorithms	Detrievel	a fallou simula and	a avaata a simuula	a fallou simula and			a fallow simple and		
use a mouse, touch screen or appropriate images with my	Practice	 Ionow simple oral algorithms 	 create a simple digital collago 	 Ionow simple oral algorithms 	 Identity a chart. sort physical 	create a simple digital collage	 Ionow simple oral algorithms 		
screen or appropriate images with my and discuss what I images with my			a move and resize	algorithms	sort physical objects, take a picture	e move and resize	algorithms		
and discuss what i mages with my		• use a mouse, touch	· move and resize		and discuss what I	images with my			
access device to target 1 tingers or mouse have done tingers or mouse		access device to target	fingers or mouse		have done	fingers or mouse			
accord dovice to target tingers or mouse have done tingers or mouse		use a mouse, touch screen or appropriate	 move and resize images with my fingers or moving 	agontinns	objects, take a picture and discuss what I	move and resize images with my	aigontinns		

	and select options on	animate a simple		 present simple data 	animate a simple	
	screen	image to speak in role		on a digital device.	image to speak in role	
	 input a simple 	 create a simple 			 create a simple 	
	sequence of	animation to tell a			animation to tell a	
	commands to control	story including more			story including more	
	a digital device with	than one character.			than one character.	
	support (Bee Bot)	 record a short film 			 record a short film 	
		using the camera			using the camera	
		 record and play a 			 record and play a 	
		film			film	
		 watch films back 			 watch films back 	
		 take a photograph 			 take a photograph 	
		and use it in an app			and use it in an app	
Vear	IT Around Us	Digital Photography	Robot Algorithmns	Pictograms	Digital Music	Programming Quizes
	Learners will develop	Learners will learn to	Learners will have an	Learners will begin to	Learners will be using	Learners begin to
group 2	their understanding of	recognise that	understanding of	understand what the	a computer to create	understand that
	what information	different devices can	instructions in	term data means and	music. They will listen	sequences of
	technology (IT) is and	be used to capture	sequences and the use	how data can be	to a variety of pieces	commands have an
	will begin to identify	photographs and will	of logical reasoning to	collected in the form	of music and consider	outcome, and make
	examples. They will	gain experience	predict outcomes.	of a tally chart. They	how music can make	predictions based on
	discuss where they	capturing, editing, and	Learners will use given	will learn the term	them think and feel.	their learning. They
	have seen IT in school	improving photos.	commands in different	'attribute' and use this	Learners will compare	use and modify
	and beyond, in	Finally, they will use	orders to investigate	to help them organise	creating music	designs to create their
	settings such as shops,	this knowledge to	how the order affects	data. They will then	digitally and non-	own quiz questions in
	hospitals, and	recognise that images	the outcome. They will	progress onto	digitally. Learners will	ScratchJr, and realise
	libraries. Learners will	they see may not be	also learn about	presenting data in the	look at patterns and	these designs in
	then investigate how	real. Children should	design in	form of pictograms	purposefully create	ScratchJr using blocks
	IT improves our world,	use digital cameras in	programming. They	and finally block	music.	of code. Finally,
	and they will learn	this lesson as well as	will develop artwork	diagrams. Learners		learners evaluate their
	about the importance	tablets.	and test it for use in a	will use the data		work and make
	of using IT responsibly.		program. They will	presented to answer		improvements to their
			design algorithms and	questions. During this		programming projects.
			then test those	unit of work learners		
			algorithms as	will use <u>j2e pictogram</u>		
			programs and debug	tool which can be		
			them. Children will	accessed online using		
				a desktop		

			use bee-bots in this lesson.			
Vocabulary	battery, buttons, com backspace, bold, copy underline, undo, word p JR, sequence, abstrac approximate, astronau satellite, sensor, space, s	puter, desktop, device, e copyright, cut, delete, h processing, algorithm, an tion, algorithm, artificial i t, data, digital content, ex survival, thermometer, a image	electricity, input, inventior ighlight, image, import, ita imation, bug, computer c intelligence, bug, correct, xperiment, interactive ma animation, animator, cont e, plan, sketch, software, s	n, keyboard, laptop, scree alics, keyboard, keyboard ode, code (verb), debug, i data, debug, decompose, p, International space sta raption, decompose, desi top motion, storyboard, u	n (monitor), mouse, outp character, paste, redo, sp con, immitate, instruction error, key features, loop, tion (I.S.S), interpret, labc gn, device, download, film upload	ut, technology, wires, bace bar, touch typing, ns, loop, repeat, Scratch predict, unnecessary, bratory, monitor (verb), n review, filming, import
E safety	Explain why I need to adult about. Talk about in real life. Know that i	keep my username, pass why I shouldn't stay on a not everyone is who they follow them. Childr	word and personal inform computer for long amour say they are on the Intern ren to search for appropria	nation private. Talk about hts of time. Talk about wh net. Understand the impo ate websites under adult	things that might be onlin y it is importance to be ki ortance of e-safety rules a supervision. Age-ap	ne that I should tell an nd and polite online and nd sign to say they will
Continuous Provision	English	Games:Use Art: Use a t: Use apps that develop Geograp History: Use onlin Maths: Use a	e scratch to allow children apps for drawing and pain DT:Use apps to meode phonics skills and practise ohy; Use apps to explore r ne reosurces and interact apps that promote fluency	to create games of their of ting to help children deve I drawing and painting. sentence construction. F maps. Use weather tracki ive ebooks to research an of in number and calculation	own choice. Practise spellings (Spelling ng apps. d find eveidence. on (Numbots)	; Shed)
Retrieval Practice	 follow simple oral algorithms use a mouse, touch screen or appropriate access device to target and select options on screen input a simple sequence of commands to control a digital device with support (Bee Bot) 	 create a simple digital collage. move and resize images with my fingers or mouse. animate a simple image to speak in role create a simple animation to tell a story including more than one character. record a short film using the camera record and play a 	 follow simple oral algorithms 	 identify a chart. sort physical objects, take a picture and discuss what I have done. present simple data on a digital device. 	 create a simple digital collage. move and resize images with my fingers or mouse. animate a simple image to speak in role create a simple animation to tell a story including more than one character. record a short film using the camera record and play a 	 follow simple oral algorithms

 watch films back take a photograph and use it in an app 		 watch films back take a photograph and use it in an app 	

		Launton Chu	rch of England Computing Low	Primary School er KS2		
	Computing systems and Networks	Creating Media	Programming A	Data and information	Creating media	Programming B
Year group 3	Connecting Computers Learners will develop their understanding of digital devices, with an initial focus on inputs, processes, and outputs. They will also compare digital and non-digital devices. Next, learners will be introduced to computer networks, including devices that make up a network's infrastructure, such as wireless access points and switches. Finally, learners will discover the benefits of connecting devices in a network. Learbers interact with during this unit. Lesson 3 requires digital devices with a painting application. Lesson 6 includes a 'network tour', which involves	Stop Frame animation Learners will use a range of techniques to create a stop-frame animation using tablets. Next, they will apply those skills to create a story-based animation. This unit will conclude with learners adding other types of media to their animation, such as music and text. Learners will use a tablet to take photos and edit them. They will use the imotion app.	Sequencing Sounds Learners explore the concept of sequencing in programming through Scratch. It begins with an introduction to the programming environment, which will be new to most learners. They will be introduced to a selection of motion, sound, and event blocks which they will use to create their own programs, featuring sequences. The final project is to make a representation of a piano. The unit is paced to focus on all aspects of sequences, and make sure that knowledge is built in a structured manner. Learners also apply stages of program	Branching Databases Learners will develop their understanding of what a branching database is and how to create one. They will use yes/no questions to gain an understanding of what attributes are and how to use them to sort groups of objects. Learners will create physical and on- screen branching databases. To conclude the unit, they will create an identification tool using a branching database, which they will test by using it. They will also consider real-world applications for branching databases. Learners will need access to the j2data	Desktop Publishing Learners will become familiar with the terms 'text' and 'images' and understand that they can be used to communicate messages. They will use desktop publishing software and consider careful choices of font size, colour and type to edit and improve premade documents. Learners will be introduced to the terms 'templates', 'orientation', and 'placeholders' and begin to understand how these can support them in making their own template for a magazine front cover. They will start to add text and images to create their own pieces of work using	Events and Actions in Porgrams Learners explore the links between events and actions, while consolidating prior learning relating to sequencing. Learners begin by moving a sprite in four directions (up, down, left, and right). They then explore movement within the context of a maze, using design to choose an appropriately sized sprite. This unit also introduces programming extensions, through the use of Pen blocks. Learners are given the opportunity to draw lines with sprites and change the size and colour of lines. The unit concludes with

	learners identifying		design through this	Pictogram, Branch,	desktop publishing	learners designing and	
	key parts of your		unit.	and Database tools	software. Learners will	coding their own	
	school network.			(see	look at a range of page	maze-tracing program.	
				https://www.j2e.com/	layouts thinking		
				jit5#branch or similar).	carefully about the		
					purpose of these and		
					evaluate how and why		
					desktop publishing is		
					used in the real world.		
					Learners will explore		
					the Adobe Spark app.		
Vocabularv	account, attachment (fil	e), BCC, CC, computer, cv	l berbully, cyberbullying, d	omain, email, email acco	i unt. emoji, information, lo	bg off. log on, password.	
	spam, username, accou	nt, attachment (file), BCC	C, CC, computer, cyberbull	v, cyberbullying, domain,	email, email account, em	oji, information, log off,	
	log on, password, spar	n, username animation, a	pplication, code, code blo	ock, debug, decompose, i	nterface, loop, predict, pr	ogram, remixing code,	
	repetition code, review	, Scratch, sprite, tinker alg	gorithm, computer, comp	uter program, CPU, (cent	ral processing unit) data,	desktop, GPU (graphics	
	processing unit), HDD (hard disk drive), QR code,	, RAM (random access me	mory), ROM (read only m	nemory), tablet device, tra	ickpad desktop, device,	
	DSL (digital subscriber	line), file, internet, laptop	, network, network map,	network switch, router, s	erver, submarine cables, ⁻	The Cloud, WiFi, wired,	
	wireless, wireless acces	ss points application, desk	ctop, digital device, edit, f	ilm, film editing software	, graphics, import (softwa	re), key events, laptop,	
	music, photo, plan, reco	rding (electronic), sound	effects, time code, video,	voiceover categorise, dat	a, database, fields (data),	filter (data), graphs and	
			charts, information, rec	cord, sort, spreadsheet			
E safety	Recognise the need to	keep personal informatio	n and passwords private.	They recognise the need	for a secure password. Ur	nderstand that an adult	
	needs to know wh	at they are doing online a	ind understand how to re	port concerns, including o	cyberbullying. Understand	that any personal	
Continuous			they put online can be se	en and used by others. S	MART rules.		
Provision		Art: Use advanced	to create more complex g	ames in a programming i	ment with effects		
		DT: Give c	hildren onnortunities to e	xplore apps that encoura	ige design		
	English: Use apr	os to develop fluency in g	rammar and encourage in	naginative description. U	se spelling shed to practis	e spelling rules.	
	G	eography: Provide access	to apps that help children	n understand the nature of	of places around the world	d.	
	History: Provide access to online reources and interactive ebboks that will help children research, find and evaluate the quality of evidence.						
	French: Use apps to practsi vocabulary in reading, writing and speaking. Use apps to explore the culture of the country being studied.						
	Maths: Use programs to develop geometric understanding. Use Numbots and Ttrockstars to develop calculation fluency.						
		Music: Pro	ovide a range of composin	g applications to experier	ment with.		
		F	PE: use health tracker app	s and heart rate monitors	5.		
Detailored	overlain that diated	Science Science	ce: Use a range of apps to	research scientific know	edge.	overlain the	
Practice	- explain that digital devices accept inputs	animation/flip book	Scratch have attributes	 make up a yes/no question about a 	- explain the difference between text and	- explain the relationship between	
Tractice	 explain that digital 	works	(linked to)	collection of objects	images	an event and an action	
		-	- identify the objects in	-	- identify the		

	devices produce outputs		a Scratch project (sprites, backdrops) - recognise that		advantages and disadvantages of using text and images	
			commands in Scratch			
			blocks			
Year	<u>The Internet</u>	Audio Production	Repitition in Shapes	Data Logging	Photo Editing	Repition in Games
group A	Learners will apply	Learners will apply	Learners will create	Learners will consider	Learners will develop	Learners will explore
group 4	their knowledge and	their knowledge and	programs by planning,	how and why data is	their understanding of	the concept of
	understanding of	understanding of	modifying, and testing	collected over time.	how digital images can	repetition in
	networks, to	networks, to	commands to create	Learners will consider	be changed and	programming using
	appreciate the	appreciate the	shapes and patterns.	the senses that	edited, and how they	the Scratch
	internet as a network	internet as a network	They will use Logo, a	humans use to	can then be resaved	environment. The unit
	of networks which	of networks which	text-based	experience the	and reused. They will	begins with a Scratch
	need to be kept	need to be kept	programming	environment and how	consider the impact	activity similar to that
	secure. They will learn	secure. They will learn	language.	computers can use	that editing images	carried out in Logo in
	that the World Wide	that the World Wide	This unit is the first of	special input devices	can have, and	Programming unit A,
	Web is part of the	Web is part of the	the two programming	called sensors to	evaluate the	where learners can
	internet, and will be	internet, and will be	units in Year 4, and	monitor the	effectiveness of their	discover similarities
	given opportunities to	given opportunities to	looks at repetition and	environment. Learners	choices.	between two
	explore the World	explore the World	loops within	will collect data as		environments.
	Wide Web for	Wide Web for	programming	well as access data		Learners look at the
	themselves in order to	themselves in order to		captured over long		difference between
	learn about who owns	learn about who owns		periods of time. They		count-controlled and
	content and what they	content and what they		will look at data		infinite loops, and use
	can access, add, and	can access, add, and		points, data sets, and		their knowledge to
	create. Finally, they	create. Finally, they		logging intervals.		modify existing
	will evaluate online	will evaluate online		Learners will spend		animations and games
	content to decide how	content to decide how		time using a computer		using repetition. Their
	honest, accurate, or	honest, accurate, or		to review and analyse		final project is to
	reliable it is, and	reliable it is, and		data. Towards the end		design and create a
	understand the	understand the		of the unit, learners		game which uses
	consequences of false	consequences of false		will pose questions		repetition, applying
	information.	information. Learners		and then use data		stages of
	Lewarners need to	need to access the		loggers to		programming design
	access the internet	application audacity to		automatically collect		throughout.
	and use the	produce a podcast.		the data needed to		
	application Chrome			answer those		
	Music Lab.					

				questions. Children will use data loggers.				
Vocabı	ulary algorithm, atmosphere, spreadsheet, units of m icon, orientation, positio create, design, edit, em (verb), content, copyrig permission, script, URL presentation software, computational thinking,	algorithm, atmosphere, automated machine, calculate, climate, design, device, forecast, input, log data, online, predict, record, sensor, source, spreadsheet, units of measurement, weather, weather satellite computer code, code block, conditional statement, decompose, direction, feature, icon, orientation, position, program (verb), Scratch project, Scratch, Scratch script, sprite, Scratch stage, tinker, variable collaboration, content, create, design, edit, embed, feature, header, hyperlinks, image, insert (file), online, plan, tab, web page, website, WWW (world wide web) code (verb), content, copyright, CSS (cascading style sheet), fake news, hacker, hex code, HTML (hypertext markup language), internet browser, permission, script, URL (uniform resource locator), web page collaborate, comment, edocument, edit, email, icon, insert (file), link, presentation, presentation software, reply, reviewing comments, share, spreadsheet, transition abstraction, algorithm design, computer code, code block, computational thinking, computer, decompose, pattern recognition, problem, Scratch Scratch script, sequence, variable						
E saf	ety Understand the need to online and understand devices, and when to lo can be seen and used lo this responsibly	Understand the need for rules to keep them safe when exchanging ideas online. They understand that an adult needs to know what they are doing online and understand how to report concerns, including cyberbullying. Recognise the need to choose age-appropriate games to play on their devices, and when to limit use. Recognise the need to protect their devices from viruses. Understand that any personal information they put online can be seen and used by others. Recognise that they can use online tools to collaborate and communicate with others and the importance of doing						
Contin Provi	uous osn English: Use ap G History: Provide ac French: Use app Maths:Us	Games: Allow students to create more complex games in a programming language of your choice. Art: Use advanced features of apps to refine techniques and experiement with effects. DT: Give children opportunities to explore apps that encourage design. English: Use apps to develop fluency in grammar and encourage imaginative description. Use spelling shed to practise spelling rules. Geography: Provide access to apps that help children understand the nature of places around the world. History: Provide access to online reources and interactive ebboks that will help children research, find and evaluate the quality of evidence. French: Use apps to practise vocabulary in reading, writing and speaking. Use apps to explore the culture of the country being studied. Maths:Use programs to develop geometric understanding. Use Numbots and Ttrockstars to develop calculation fluency. Music: Provide a range of composing applications to experiment with. PE: use health tracker apps and heart rate monitors.						
Retric Pract	eval discuss why we need a network switch - explain how messages are passed through multiple connections - recognise different connections - describe the internet as a network of networks	- explain how an animation/flip book works	- explain that objects in Scratch have attributes (linked to)	 investigate questions with yes/no answers make up a yes/no question about a collection of objects 	 explain the difference between text and images identify the advantages and disadvantages of using text and images 	- identify a way to improve a program		



Launton Church of England Primary School

Computing Upper KS2



	Computing systems	Creating Media	Programming A	Data and	Creating Media	Programming B
				Information		
Year	Systems and Searching	Video Production	Selection in Physical	Flat File Databases	Introcuction to Vector	Selection in Quizes
group 5	Learners develop their	Learners will learn	Learners will use	Learners will look at	Graphics	Learners will develop
group 3	understanding of	how to create short	physical computing to	how a flat-file	Learners start to	their knowledge of
	computer systems and	videos by working in	explore the concept of	database can be used	create vector	'selection' by revisiting
	how information is	pairs or groups. As	selection in	to organise data in	drawings. They learn	how 'conditions' can
	transferred between	they progress through	programming through	records. Learners will	how to use different	be used in
	systems and devices.	this unit, they will be	the use of the	use tools within a	drawing tools to help	programming, and
	Learners consider	exposed to topic-	Crumble programming	database to order and	them create images.	then learning how the
	small-scale systems as	based language and	environment. Learners	answer questions	Learners recognise	'if then else'
	well as large-scale	develop the skills of	will be introduced to a	about data. They will	that images in vector	structure can be used
	systems. They explain	capturing, editing, and	microcontroller	create graphs and	drawings are created	to select different
	the input, output, and	manipulating video.	(Crumble controller)	charts from their data	using shapes and lines,	outcomes depending
	process aspects of a	Learners are guided	and learn how to	to help solve	and each individual	on whether a
	variety of different	with step-by-step	connect and program	problems. They will	element in the	condition is 'true' or
	real-world systems.	support to take their	it to control	also use a real-life	drawing is called an	'false'. They represent
	Learners discover how	idea from conception	components (including	database to answer a	object. Learners layer	this understanding in
	information is found	to completion. At the	output devices — LEDs	question, and present	their objects and	algorithms, and then
	on the World Wide	conclusion of the unit,	and motors). Learners	their work to others.	begin grouping and	by constructing
	Web, through learning	learners have the	will be introduced to		duplicating them to	programs in the
	how search engines	opportunity to reflect	conditions as a means		support the creation	Scratch programming
	work (including how	on and assess their	of controlling the flow		of more complex	environment. They
	they select and rank	progress in creating a	of actions in a		pieces of work.	learn how to write
	, results) and what	video. Children will	program. Learners will		Learners will access	programs that ask
	influences searching.	access Microsoft	make use of their		the Google Drawings	questions and use
	and through	Video Editor app.	knowledge of		Application	selection to control
	comparing different		repetition and			the outcomes based
	search engines.		conditions when			on the answers given.
			introduced to the			They use this
			concept of selection			knowledge to design a

			(through the			quiz in response to a
			'ifthen' structure)			given task and
			and write algorithms			implement it as a
			and programs that			program. To conclude
			utilise this concept. To			the unit, learners
			conclude the unit,			evaluate their
			learners will design			program by identifying
			and make a working			how it meets the
			model of a fairground			requirements of the
			carousel that will			task, the ways they
			demonstrate their			have improved it, and
			understanding of how			further ways it could
			the microcontroller			be improved.
			and its components			
			are connected, and			
			how selection can be			
			used to control the			
			operation of the			
			model. Throughout			
			this unit, learners will			
			apply the stages of			
			programming design.			
Vocabulary	catfishing, cyberbully, c	ybercriminal, cyberstalkin	g, exclusion, fake profile,	harassment, information,	online, outing, online saf	ety, password, personal
	information/data, phi	ishing, trickery, trolling .he	ex file, .zip file, bluetooth,	, code block, decompose,	emulator, feature, loop, l	Micro:bit, pedometer,
	predict, program, syst	ematic, tinker, USB univer	rsal serial bus), variable ba	asic commands, bug, com	puter code, code (verb), c	debug, error, live loop,
	loop, pitch, program	language, rnythm, Sonic F	 soundtrack, tempo, tim 	ibre, tinker algorithm, cor	npany logo, data leak, dai	ta privacy, take news,
	inaccurate information,	index, keywords (interne	t), network, online, page	rank, search engine, web	crawler, website, www.vv (world wide web) binary
		insmission, discovery, disc	tance, input, iviars Rover,	moon, numerical data, ou	ILPUL, PIANEL, TAUIO SIGNAI,	research, scientist,
	CDU (control procession	a unit) data digital imag	o oncodo imago IDEC (i	ary mage, bit, bit pattern,	(computer-aided de	ng system nivels DCD
	CPO (central processir	ig unit), data, digital imag	e, encoue, image, JPEG (JC (red. gra	en blue)	group), memory, operati	ng system, pixels, RGB
E safety	Understand the need to	keep personal information	on and passwords private	and know how to choose	e a secure password. Unde	erstand appropriate and
	inappropriate use of t	the Internet including exce	essive use. Recognise the	risks and rewards of using	Internet communication	tools and understand
	how to protect th	emselves and the devices	they use. Understand the	e need to respect the right	ts of other users. and und	erstand their own
		responsibility for info	ormation that is shared ar	nd how it may impact on o	others. SMART Rules	

Continuous provision	Rota of children to set up technology ready for assemembly. Including laptop, screen ,projector and interent search for artist of the week. Games: Allow students to create more complex games in a programming language of your choice. Art: Use advanced features of apps to refine techniques and experiement with effects. DT: Give children opportunities to explore apps that encourage design. English: Use apps to develop fluency in grammar and encourage imaginative description. Use spelling shed to practise spelling rules. Geography: Provide access to apps that help children understand the nature of places around the world.					
	History: Provide access to online reources and interactive ebboks that will help children research, find and evaluate the quality of evidence. French: Use apps to practsi vocabulary in reading, writing and speaking. Use apps to explore the culture of the country being studied.					
	Music: Provide a range of composing applications to experiement with. PE: use health tracker apps and heart rate monitors.					
	Science: Use a range of apps to research scientific knowledge.					
Retrieval Practice	demonstrate how information is shared across the internet - describe the internet as a network of networks	 explain that video is a visual media format identify features of videos 	- explain what an infinite loop does	 explain how information can be recorded order, sort, and group my data cards 	- discuss how vector drawings are different from paper-based drawings	- explain that program flow can branch according to a condition
Year group 6	Communication and Collaboration Learners explore how data is transferred over the internet. Learners initially focus on addressing, before they move on to the makeup and structure of data packets. Learners then look at how the internet facilitates online communication and collaboration; they complete shared projects online and evaluate different methods of	Webpage Creation Learners will be introduced to creating websites for a chosen purpose. Learners identify what makes a good web page and use this information to design and evaluate their own website using Google Sites. Throughout the process, learners pay specific attention to copyright and fair use of media, the aesthetics of the site, and navigation paths.	Variables in Games Learners explore the concept of variables in programming through games in Scratch. First, learners find out what variables are and relate them to real- world examples of values that can be set and changed. Then they use variables to create a simulation of a scoreboard. In Lessons 2, 3, and 5, which follow the Use- Modify-Create model, learners experiment with variables in an	Introduction to Spreadsheets Learners will be supported in organising data into columns and rows to create their own data set. Learners will be taught the importance of formatting data to support calculations, while also being introduced to formulas and will begin to understand how they can be used to produce calculated data. Learners will be taught how to apply	<u>3D Modelling</u> Learners will develop their knowledge and understanding of using a computer to produce 3D models. Learners will initially familiarise themselves with working in a 3D space, moving, resizing, and duplicating objects. They will then create hollow objects using placeholders and combine multiple objects to create a model of a desk tidy.	Sensing Movement Leaners bring together elements of all the four programming constructs: sequence from Year 3, repetition from Year 4, selection from Year 5, and variables (introduced in Year 6 – 'Programming A'. It offers pupils the opportunity to use all of these constructs in a different, but still familiar environment, while also utilising a physical device — the micro:bit

	communication. Finally, they learn how to communicate responsibly by considering what should and should not be shared on the internet.		existing project, then modify them, before they create their own project. In Lesson 4, learners focus on design. Finally, in Lesson 6, learners apply their knowledge of variables and design to improve	formulas that include a range of cells, and apply formulas to multiple cells by duplicating them. Learners will use spreadsheets to plan an event and answer questions. Finally, learners will create	examine the benefits of grouping and ungrouping 3D objects, then go on to plan, develop, and evaluate their own 3D model of a building. Leaners use the 3D modelling application Tinkercad.		
			their games in Scratch.	charts, and evaluate their results in comparison to questions asked.			
Vocabulary	algorithm, computer code, computer command, decompose, import (software), indentation (programming), loop, nested loop, random numbers,						
	remix, script libraries, variable barcode, boolean, brand, commuter, contactless, data, data privacy, encrypt, infrared waves, NFC (near field						
	communication), QR (quick response) code, radio waves, RFID (radio frequency identification), signal systems or data analyst, transmission big data,						
	bluetooth, corrupt data, digital revolution, GPS (global positioning system), infrared waves, IoT (internet of things), QR code, RFID, SIM, smart city, smart school acrostic code, brute force backing, caesar cipher, chip and pip system, cipher, date shift cipher, encrypt, invention, Nth letter cipher						
	password, pigpen cipher, secure, technological advancement, trial and error background noise, byte, computer. CPU. device. gigabyte, kilobyte.						
	megabyte, memory storage, mouse, operating system (OS), radio play, ROM, sound effects, terabyte, touch screen, trackpad adapt, advertisement,						
	algorithm, bug, CAD, computer code, code (verb), design, edit, electronic components, image rights, image, information, input, invention, loop,						
	output, photo, product, program, repetition (code), screenshot, selection (programming), sequence, structure, variable						
E safety	Recognise their ov	Recognise their own right to be protected from the inappropriate use of technology by others and their responsibility to report concerns.					
	Understand now to use social networking websites appropriately, keeping an adult informed about their online activity. They make good choices when they present themselves online. Becognise the appropriate online tools to collaborate and communicate with others, understanding how to						
	protect themselves from cyberbullying or causing hurt to others, especially when using social networks (including online gaming communities).						
	Understand the need to respect the rights of other users, and understand their own responsibility for information that is shared and how it may						
	impact on others. SMART rules.						
Continuous Provision	Rota of children to set up technology ready for assemembly. Including laptop, screen ,projector and interent search for artist of the week. Games:						
	Allow students to create more complex games in a programming language of your choice.						
		DT: Give children opportunities to explore apps that encourage design.					
	English: Use apps to develop fluency in grammar and encourage imaginative description. Use spelling shed to practise spelling rules.						
	Geography: Provide access to apps that help children understand the nature of places around the world.						
	History: Provide access to online reources and interactive ebboks that will help children research, find and evaluate the quality of evidence.						
	French: Use apps to practsi vocabulary in reading, writing and speaking. Use apps to explore the culture of the country being studied.						

	Maths:Use programs to develop geometric understanding. Use Numbots and Ttrockstars to develop calculation fluency. Music: Provide a range of composing applications to experiement with. PE: use health tracker apps and heart rate monitors. Science: Use a range of apps to research scientific knowledge.					
Retrieval Practice	 describe that a computer system features inputs, processes, and outputs explain that computer systems communicate with other devices 	 discuss the different types of media used on websites explore a website I know that websites are written in HTML 	 explain that the way a variable changes can be defined identify examples of information that is variable 	 collect data enter data into a spreadsheet suggest how to structure my data 	- add 3D shapes to a project - move 3D shapes	 apply my knowledge of programming to a new environment test my program on an emulator