

## Coupe Green Primary School Computing Curriculum Progression Map



**Intent** - At Coupe Green, our aim is to provide a computing curriculum which provides children with the necessary skills to embrace and utilise new and existing technology in a safe and responsible way. We want our pupils to have the fundamental skills required to succeed in their future education whilst also understanding the principles of computer science and computational thinking. We also believe our children should be able to analytically solve computational problems, communicate in a digitally literate world and become competent and confident users of information technology.

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Year Group	Knowledge	Skills	Vocabulary	Resources	Programs
Стопр	Bussiliand			:Dada	
EYFS	Preschool  -To be able to tell a trusted grown up when something makes you feel sad or scaredTo know that technology is used for a purposeTo begin to explore technology safely.  Reception		computer screen device share equipment	iPads Interactive Whiteboard Easi Cameras (Blue) Walkie Talkie Headsets Remote control cars Talking Pegs	
	Online Safety  - To know what to do if something you see on a screen upsets you.  - To know that it is important to be kind when using technology.  - To know that we can use computers to share information.  - To know how to operate simple equipment.			Tuking r egs	
	Online Safety	Online Safety	personal information	Bee-Bots	Bee-Bots
	- To understand what 'personal information' is.	- To explain why it is important to keep passwords private To explain some of the risks of communicating online with others I	private open	Bee-Bot mats	Bee-Bot app (iPad)
	Basic Skills	don't know well.	text	iPads	Pic Collage
	- To know what a file is.	- To explain how using technology can distract me from other things.	image	Laptops	. 10 0011480
	- To know that there are different types of technology in and out of	0.00	file		Camera on iPads
	school.	Basic Skills	search	Easi Cameras (Blue)	
	- To know how technology can be used to find information.	- To open a file by following an adult's instructions.	algorithm		Swiggle - Child
	- To understand how keyboards are used for typing and internet	- To find and type using letters on a keyboard.	forwards	Walkie Talkie	friendly search
Year 1	searches.	- To perform a simple search to find information.	backwards left	Headsets	engine
		Programming	right	Acceptable Use Policy	Scratch Junior
	Programming	- To write a simple one entry algorithm using $\leftarrow \uparrow \rightarrow \downarrow$ and turns to	turn 90°	class rules	30.000.0001
	- To know the directions $\leftarrow \uparrow \rightarrow \downarrow$ and 90° turns.	move (humans and devices).	debug		
	- To know what an algorithm is.	- To describe what happens when you press buttons on a robot.	simulation	Easi speak	
	- To know that debugging is spotting a mistake in a simple set of	- To predict what will happen when buttons on a robot are pressed.	start / stop / go	microphones	
	instructions.	- To control and use simulations.	program		
	- To understand start, stop and go commands.	- To spot mistakes in a set of instructions (debug).	арр	KS1 keyboards (x4)	
		- To locate, open and close the Bee-Bot app.	keyboard		

	- To understand how commands given to robots result in their		arrow	digital microscopes	
	movement.	Multimedia	spacebar		
		- To create text and images (with support).		Talking Pegs	
	Multimedia	- To record sound files (with support).			
	- To know how to create text and images using technology.	- To take photos using a range of devices.		Headphones	
	Online Safety	Online Safety	internet	iPads	Scratch Junior app
	- To understand the importance of computers and communicating	- To explain why we keep personal information and passwords private.	communicate	Laptops	
	online.	- To recognise the difference between real-life and online friends.	website		Turtle Logo (online
		- To describe ways technology can affect healthy sleep.		Bee-Bots	free)
	Basic Skills	To describe mayo testimology our uncer nearthy steep.	text	Blue-Bot	
	- To know how to perform a simple internet search by following links.	Basic Skills	image	Bee-Bot mats	Swiggle - Child
	- To know what a file is used for.	- To open, save and close a file (with support).	file	Bee-Bot activity cards	friendly search
	- To recognise the icons for save and close.	- To close a window by pressing X in the corner.	create	Car-Bot (x1)	engine
	To recognise the leans for save and close.	- To make digital content using a simple program.	store	Cai 201 (X1)	cribine
	Programming	- To type words using letters on a keyboard.	retrieve	EasiSpeak	Typing skills (online
	- To know the directions $\leftarrow \uparrow \rightarrow \downarrow$ and turns 90° and 180°	- To do a simple internet search and follow links to websites.	retrieve	microphones	free)
	- To understand use of the commands fd, rt, lt, bk for movement.	- 10 do a simple internet search and follow links to websites.	presentation	inicrophones	1166)
	- To know an algorithm is a set of instructions.	Programming	movie/film	Acceptable Use Policy	Pic Collage
Year 2	- To understand how algorithms are used to give robots and devices	- To write a simple algorithm using fd, rt, lt, bk to make objects move.	audio	class rules	i ic collage
	instructions for movement.	- To alter an algorithm using variables.	addio	class rules	Bee Bot app
	- To know what a variable is.	- To check for errors in an algorithm.	fd, rt, lt, bk 90° 180°	Bird Box Camera	вее вот арр
	- To know what a variable is To know what debugging is.	- To check for errors in an algorithm.  - To predict the outcome of an algorithm.	commands	DITU DOX Calliera	
	- 10 know what debugging is.	- To be able to erase an algorithm.	Commanus	KS1 keyboards (x4)	
	Multimedia	- To be able to erase an algorithm.	algorithm	KSI Keyboarus (X4)	
	- To know that a presentation can be a film, audio and images.	Multimedia	debug	digital microscopes	
	- TO Know that a presentation can be a film, additionally images.	- To use a gallery to select appropriate photos.	debug	digital inicroscopes	
		- To delete a photo from a gallery.		Headphones	
		- To search for images by following links.		rieaupilones	
		- To insert an image into a program (e.g. Pic Collage).			
		- To type words to be added to a presentation.			
		- To record sound files using microphones.			
	Online Safety	Online Safety	Caps Lock	innoBots	iPad
	- To understand that bullying can occur online as well as in the 'real-	- To explain what a 'strong' password is.	Caps Lock	IIIIODOtS	Stop-motion App
	world.'	- To use technology safely and respectfully and keep our information	SMART	green screen	iMovie
	- To recognise that not all information online is trustworthy.	secure (SMART rules).	Safe	green sereen	IIVIOVIC
	To recognise that not an information online is trustworthy.	- To identify strategies for limiting the amount of time spent online.	Meet		pic collage
	Basic Skills	To identify strategies for infining the amount of time spent offine.	Accept		pic collage
	- To understand the term focus when taking photos.	Basic Skills	Reliable	digital microscopes	innoBot coding app
	- To know the purpose of a track pad and a mouse.	- To log onto a laptop independently.	Tell	digital inicroscopes	(2D shape drawing)
	- To understand the purpose of a search engine.	- To use passwords to log onto secured apps (e.g., bug club, Rockstar	1011	iPads	(2D shape arawing)
	To understand the purpose of a search engine.	Maths etc.)	algorithm	Laptops	green screen ink
Year 3	Programming	- To use iPads to capture, locate and save photos in a specified place on	debug	Laptops	green screen ink
i Cai 3	- To know how to debug (correct) a problem in an algorithm.	the network.	program	Acceptable Use Policy	Laptops
	- To know how to debug (correct) a problem in an algorithm.  - To know how to set distance and angle turns for a control device	- To type words on a keyboard with increasing fluency.	animation	class rules	Swiggle - child
	(e.g. innoBot).	- To create capital letters with the 'caps lock' key.	stop motion	class rules	friendly search
	(e.g. IIII000t).	- To use child friendly search engines for independent research.	capture	children's mice	engine
	Multimedia	- To use clinia menary search engines for independent research.	select	Cililateit 3 iiilee	engine
	- To explain the stages of creating a stop-motion animation.	Programming	locate	KS1 Keyboards (x4)	FE – File Explorer app
	- To plan, capture and create images, text and graphs to present	Programming - To plan and write an algorithm.	icon	NOT NEYBOAIUS (X4)	I I THE EXPIDITE APP
	information.	- To plan and write an algorithm To sequence programming commands correctly.	ICUII	Headphones	
	intornation.	- To sequence programming commands correctly.  - To use repeat commands.	search engine	ricaupilones	
		- To use repeat commands.  - To test algorithms and spot problems (debug).	track pad		
		To test digorithms and spot problems (debug).	Hack pau	1	

			mouse		
		Multimedia	log on		
		- To use programs to present data (graphs).	device		
		- To add text and images to presentations.			
		- To create stop-motion animations.	repeat		
		- To use green screen technology to capture images for presentations.	commands		
			sequence		
	Online Safety	Online Safety	edit	digital microscopes	innoBot app
	- To know different ways of reporting concerns about online content.	- To evaluate the strength of passwords and suggest ways for	crop		
	- To understand that the internet can be tracked and monitored.	improvement.	rotate	iPads	Pic Collage app
		- To develop strategies for verifying the reliability and accuracy of online	create	Laptops	
	Basic Skills	information.	select		iMovie app
	- To recognise icons for open and understand the drop down menu on		open	Acceptable Use Policy	
	laptop programs.	Basic Skills	save	class rules	Cameras
		- To select and use keywords in a search engine.	locate		
	Programming	- To create capital letters using the SHIFT key.		innoBots	FE (File Explorer)
	- To know how to write programs by ordering and sequencing	- To edit, crop and rotate photos.	algorithm		
	commands for a purpose.	- To type with increasing fluency and stamina.	debug	microphones	Green Screen Ink
	- To understand how algorithms can be checked and tested to look for	- To locate, open and edit a saved file then resave.	program		
	mistakes (debugging).	- To use a mouse to manipulate objects on screen (e.g. Stick-man	animation	Headphones	Espresso Coding
Year 4		animation on laptops).	stop motion		(Year 4)
	Multimedia		capture		
	- To know how to plan and create animations to present learning.		icon		
	- To combine images, text and graphs to present information.	Programming	manipulate		Stick man animations
		- To independently write algorithms using sequence, repetition and			on laptops
		selection.	sequence		
		- To debug algorithms.	repetition		
		- To use directional commands to control an external device (e.g.	selection		
		innoBots).			
		Multimedia	commands		
		- To create stop-motion animations with sound.	external device		
		- To download and save audio files.	data logger		
		- Add sound files to a variety of presentations e.g. green screen, iMovie.			
	Online Safety	Online Safety	variable	digital microscopes	PowerPoint
	- To have an understanding of the term 'digital footprint.'	- To explain what to do if a password is lost or stolen.	network		
	- To understand why some social media platforms have age	- To identify their own digital footprint.	сору	iPads	iMovie app
	restrictions.	- To use search tools to find and access content that can be used by	paste	Laptops	
	- To understand the term 'copyright.'	others (copyright free).	insert	. 1 1	Green Screen ink
	17.5	- To explain how others online can pretend to be me or other people.	keywords	Acceptable Use Policy	
	Basic Skills		,	class rules	Dance Mat Typing
	- To understand how a spreadsheet works.	Basic Skills	digital footprint		(BBC)
	- To know how to independently search websites and locate	- To type using two hands.		Dash robot	, ,
	appropriate information and content.	- To locate, open and save files to a specified place on the network.	'if' 'then' commands		Scratch
VoorE		- To insert an image from a selected bank of images.		microphones	
Year 5		- To copy and paste text.	input		Dash robot app
	Programming	- To develop effective search techniques through use of keywords.	output		
	- To know how to give commands to control external devices.		logical thinking		
	- To understand how algorithms work and detect variables that can be	Programming			
	changed.	- To design an algorithm to solve a specified problem (e.g. Espresso	select		
		Coding).	repeat		
	Multimedia	- To use repeat commands to improve a program (e.g. Scratch).	manipulate		

	- To know how to input audio, data, text, images and graphs within a	- To use a variable to increase programming possibilities.	external device		
	presentation.	- To change an input to achieve a different output.			
	- To understand what changes can be made to improve the final	- To use 'if' and 'then' commands.			
	outcome.	- To detect and correct errors in algorithms using logical thinking.			
		To detect and contest ends in algorithms doing logical timining.			
		Multimedia			
		- To use text, photo, sound and video editing tools to refine my work.			
		(e.g. PowerPoint, iMovie and Green Screen).			
		- To use my knowledge to create content using new programs.			
		- To select, use and combine tools to create an effective outcome.			
		- To evaluate my own and others' work and make appropriate			
		improvements.			
	Online Safety	Online Safety	formulae	digital microscopes	Discovery Coding
	- To understand the positive and negative impact of social media use.	- To explain the concept of plagiarism.			(Year 6)
	- To understand the benefits and risks of sharing information online.	- To explain how online bullying can be different to bullying in the 'real	spreadsheet	iPads	
		world.'		Laptops	Dash robot app
	Basic Skills		advanced search		
	- To know how to perform focussed searches online to find desired	Basic Skills		Acceptable Use Policy	iMovie
	information.	- To type using 2 hands fluently.	keyboard shortcuts	class rules	Green Screen ink app
	- To understand computer networks including the internet and the	- To save an image from the internet to be inserted into a document	copy (Ctrl+C)		
	World Wide Web.	(e.g. Word).	paste (Ctrl+V)	Dash robot	PowerPoint
	- To understand how search results are selected and ranked.	- To copy and paste text between two documents.	open (Ctrl+O)		Word
		- To copy and paste an image from the internet.	save (Ctrl+S)	Green Screen	Excel
	Programming	- To begin to use keyboard shortcuts to copy, paste, save and open.			
	- To know how to design, write and debug programs.	- To enter formulae into a spreadsheet (e.g. Excel).	digital footprint		Scratch
	- To understand how algorithms can be improved by changing	- To conduct advanced searches and explore how to refine web searches			
V	variables.	through use of keywords and "inverted commas".	variable		Espresso Coding
Year 6	Multimedia	Programming	media		
	- To know how to effectively create presentations using a range of	- To solve a problem using prior knowledge of similar solutions.	media		
	media.	- To explain each step of an algorithm (e.g. Espresso Coding).	device		
		- To evaluate and improve an algorithm.			
		- To recognise the variable required to achieve the desired outcome.	harm		
		- To debug using logical thinking.	validity		
		Multimedia	logical thinking		
		- To combine editing tools to achieve a specific outcome for an audience	iogical tillikilig		
		(e.g. iMovie, PowerPoint, Pic Collage).	network		
		- To confidently identify the uses of new programs to achieve a	plagiarism		
		particular outcome.	μιαβιαι ισι ι		
		- To combine a range of media and tools and recognise the contribution			
		of each one.			
		or each one.			
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