

	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
Programming	-Give a set of instructions	-Understand and articulate what	-Design, write and debug	-Design, write and debug
	(algorithm) to a Beebot.	algorithms are using appropriate	programs for a purpose, e.g. an	programs for a purpose, e.g. an
	Start to give instructions	vocabulary. (Y1, 2 Aut)	animation (Y3 Aut) or an	animation <mark>(Y3 Aut)</mark> or an
	with a purpose.	-Create, execute and debug simple	educational game (Y4 Aut).	educational game (Y4 Aut).
	-Recognise which	programs using software such as	-Use logical reasoning to identify	-Use complex functions such as
	direction the Beebot is	Scratch. (Y1, 2 Aut)	when a program is not working	loop and conditional
	facing and give	-Predict the behaviour of programs	and debug simple programs. (Y3	instructions <mark>(Y5 Aut)</mark>
	instructions to change	by observing algorithms. (Y1, 2 Aut)	Aut) (Y4 Aut).	-Use logical reasoning to explain
	the direction.			how some algorithms work and
				detect and correct errors in
				algorithms and programs. (Y5
				Aut)
Computer	-Use iPads to take	-Use technology to create organise,	-Use Google applications such as	-Use a range of online
networks	pictures and recognise	store, manipulate and retrieve	Google Drive and Google	technologies (such as Padlet) to
	that a picture has been	digital content. (Y1 Sum) (Y2 Spr)	Classroom to create, store and	create collaboratively. (Y5 Sum)
	saved in the gallery and	-Edit photos using iPad software and	manipulate information. (Y3 Spr)	-Use Google applications such as
	can be viewed.	print photos independently. (Y2 Spr)	-Use iPads to take pictures and	Google Drive, Google
			save in the allocated folders, e.g.	Classroom, Google Sites and
			Pupil Drive. Then access and	Google Sheets with increasing
			manipulate these photos using	confidence and independence
			other technologies, such as a	to create, sto <mark>re and manipula</mark> te
			Chromebook. <mark>(Y3 Spr)</mark>	information. <mark>(Y6 Aut) (Y6 Spr)</mark>
			-Understand and explain how	-Explain cloud services, such as
			computer networks work, such as	Google applications, and how
			the internet and how they can	remote networks differ to local
			provide multiple services and	networks.



Creating and presenting	-Use touchscreen devices to create drawingsTake photos and record videos. Add voice recordings to articulate their learning and understanding.	-Recognise common uses for technology beyond school. For example, children may select and use appropriate hardware and software to solve problems, create or present informationUse Book Creator to create an eBook which contains images, drawings, text and voice recordings.  (Y1 Sp) -Use Google Forms to create simple quizzes and analyse the resulting data to make conclusions. (Y2 Sum)	opportunities for collaboration.  (Y3 Sum) (Y4 Sum)  -Use email services to communicate effectively. (Y3 Sum)  -Use search technologies effectively to find content that serves a specific purpose. (Y3 Spr)  -Use devices to record video/music effectively. Evaluate and edit accordingly. (Y3 Spr) (Y4 Spr)  -Save content using iPads and access this on other devices, showing an ability to use different technologies for different purposes. (Y3 Spr) (Y4 Spr)	-Understand and explain how HTML is used to create web pages. Use software to change web pages by editing HTML. (Y5 Spr) -Use a range of technologies (such as Padlet and Google applications) to create collaboratively. (Y5 Sum)
E-Safety	-Use ICT hardware and software safely under adult supervisionUse safe, adult-approved search engines to retrieve information.	-Use search engines safely to find images on the internet. (Y1 Sum) -Keep personal information private and recognise the importance of secure passwordsIdentify where to go for help and support if they have concerns about their own safety when using the internet or other technologies.	-Explain and demonstrate safe use of email services such as Gmail. (Y3 Sum) -Identify where to go for help and support if they have concerns about their own safety when using the internet or other technologies. Articulate best practise for using the internet safely.	-Articulate best practise for using the internet safely and provide advice and leadership to others. (Y6 Sum) When working collaboratively, recognise the importance of safe and responsible online behaviourThink critically and discerningly when using search engines and other online services.





## **Progression in Computing Vocabulary**

## **Computing Vocabulary**

	Nur	Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Aut	Program	ming	2.1 We are	2.2 We are game	3.1 We are	4.1 We are software	5.1 We are game	5.4 We are web developers
	using rabbits		astronauts	testers	programmers	developers	developers	Creating a website
	and carrots		Programming on	Exploring how	Programming an	Developing a simple	Developing an	<b>Google Sites</b>
			screen	computer games	animation	educational game	interactive game	4,5,6,7
	Also see	note	Scratch/Daisy the	work	Scratch	Scratch	Scratch	
	below		Dinosaur (iPad)	Scratch	1,2,3,7	1,2,3,7	1,2,3,7	<mark>Browser</mark>
			1,2,3	1,2,3,6				Computer network
					<mark>Algorithm</mark>	<mark>Algorithm</mark>	<mark>Algorith</mark> m	Domain name
			<mark>Algorithm</mark>	<mark>Algorithm</mark>	Browser	Browser	Browser	Hyperlink
			<b>Debugging</b>	<b>Debugging</b>	<b>Condition</b>	<b>Condition</b>	<b>Condition</b>	<mark>Internet</mark>
			Run	Run	Repeat/loop	Repeat/loop	Repeat/loop	<mark>Wi-Fi</mark>
			Coding	<b>Coding</b>	<b>Debugging</b>	<b>Debugging</b>	<b>Debugging</b>	Cloud computing
			<mark>Program</mark>	<mark>Program</mark>	<mark>Input</mark>	<mark>Input</mark>	<mark>Input</mark>	<mark>Hardware</mark>
			<mark>Internet</mark>	Internet	<mark>Output</mark>	<mark>Output</mark>	Output	Software
			Wi-Fi	Wi-Fi	Cloud computing	Cloud computing	<b>Cloud computing</b>	<b>URL</b> (Uniform Resource
					<b>Hardware</b>	<mark>Hardware</mark>	<b>Hardware</b>	Locator)
					Software	Software	Software	Website
					<mark>Run</mark>	<mark>Run</mark>	Run	Web page
					<b>Coding</b>	<b>Coding</b>	<b>Coding</b>	Internet Safety
					<mark>Program</mark>	<mark>Program</mark>	Program Program	
					<mark>Internet</mark>	<mark>Internet</mark>	<mark>Internet</mark>	
					Wi-Fi	<mark>Wi-Fi</mark>	Wi-Fi	





Spr	Photographers – taking photos of their own and each other's learning  Also see note below	1.5 We are storytellers Produce a talking book Book Creator (iPad) 4,5  eBook Internet Wi-Fi	2.3 We are photographers Taking photos Google photos (formally Picasa) 4,5,6  Browser Internet Wi-Fi Filter Editing	3.3 We are presenters Videoing performance iMovie Green Screen/ Dolnk (iPad) 4,6,7  Browser Hardware Software Internet Wi-Fi Editing Green screen	4.3 We are musicians Producing digital music Auxy/Garageband (iPad) 2,4,6  Repeat/loop Input Output Browser Cloud computing Hardware Software Internet Wi-Fi	4.4 We are HTML editors Editing and writing HTML X-Ray Goggles 1,4,5,7  Browser Domain name HTML (HyperText Markup Language) Hyperlink Hardware Software URL (Uniform Resource Locator Website Web page Coding Program	4.6 We are meteorologists Presenting data about the weather Google sheets 6  Browser Data Cloud computing Spreadsheet Hardware Software Formula
Sum	Programming using Beebots  Also see note below	1.4 We are collectors Finding images using the web Google Chrome, Google Slides 4,5,6  Browser Internet Wi-Fi Search engine Internet Safety	3.6 We are opinion pollsters Collecting and analysing data Google Forms 5  Browser Internet Wi-Fi Data	3.5 We are communicators Communicating safely on the internet Gmail 4,5,6,7  Browser Computer network Hyperlink Hardware Software	3.4 We are network engineers Exploring computer networks, including the internet 4  Browser Computer network Debugging Hardware Software	4.5 We are co- authors Writing collaboratively (adapted from S.O. scheme) Padlet 4,6,7  Browser Computer network Hardware Software	5.5 We are bloggers Sharing experiences and opinions online Blogger/ Twitter 4,5,6,7  Browser Hyperlink Hardware Software Internet Safety



		<b>Email</b>	<mark>Input</mark>	Website	
		Internet Safety	<mark>Output</mark>	Web page	
			<mark>Internet</mark>		
			<b>Cloud computing</b>		
			<mark>Server</mark>		
			Network switch		

**Programming** 

Networks/hardware/cloud computing

The web

Internet Safety/communication

Software

