



Year 2021-2022									
	CURRICULAR KEY AREA – CHILDREN KNOW HOW								
Other Curricular	Component: Computing Systems & Networks								
Goals	Class 1	Class 2		Class 3		Class 4			
	Reception Expected	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected		
Know how to use	In order to help ensure	Technology	Information	Connecting Computers	The internet	Sharing information	Communication		
Standard English	our Reception children's	around us	technology around	To explain how digital	To describe how	To explain that	To identify how to use a		
appropriately	'school readiness' and	To identify	us	devices function	networks physically	computers can be	search engine		
	'give them a broad	technology	To recognise the	To identify input and	connect to other	connected together	To describe how search		
Know how to	range of knowledge and	To identify a	uses and features of	output devices	networks	to form systems	engines select results		
develop socially:	skills' that provide the	computer and its	information	To recognise how digital	To recognise how	To recognise the role	To describe how search		
Working and	right foundation for	main parts	technology	devices can change the	networked devices	of computer systems	engines select results		
socialising	future learning, we	To use a mouse	To identify	way we work	make up the internet	in our lives	To explain how search		
with other	introduce the term	in different ways	information	To explain how a	To outline how	To recognise how	results are ranked		
pupils	Computational Thinking	To use a	technology in the	computer network can	websites can be	information is	To recognise why the		
Demonstrate	in Class 1.	keyboard to type	home	be used to share	shared via the World	transferred over the	order of results is		
mutual		To use the	To identify	information	Wide Web	internet	important, and to		
respect and	Using a range of	keyboard to edit	information	To explore how digital	To describe how	To explain how	whom		
tolerance of	curriculum resources	text	technology beyond	devices can be	content can be added	sharing information	To recognise how we		
different	created by Barefoot	To create rules	school	connected	and accessed on the	online lets people in	communicate using		
views	Computing, we use a	for using	To explain how	To recognise the	World Wide Web	different places work	technology		
	range of activities to	technology	information	physical components of	To evaluate the	together	To evaluate different		
Know how to have	introduce	responsibly	technology benefits	a network	consequences of	To contribute to a	methods of online		
a growth-mindset:	Computational Thinking		us		unreliable content	shared project online	communication		
Know that	in EYFS. These include a	ONLINE SAFETY	To show how to use			To evaluate different			
you might not	wide assortment of		information			ways of working			
have	familiar activities such		technology safely			together online	ONLINE SAFETY		
mastered it	as water play, outdoor								
<u>yet</u>	play, role-play ideas,		ONLINE SAFETY			ONLINE SAFETY			
Learn from	games and challenges	Technology,	Information	Digital device, input,	Internet, network,	System, connection,	search engine,		
mistakes		Computer,	technology (IT),	output, process,	router, network	digital, input,	refine, index, bot,		
Listen to		mouse/trackpad,	barcode,	Program, Connection,	security, router,	process, output,	ranking, search engine		
feedback		keyboard,	scanner/scan	network, network	website, web page,	protocol, address,	optimisation, links, web		
from adults		screen, click,		switch, server, wireless	web address, routing,	packet, chat, explore,	crawlers, content		
and peers		drag, draw,		access point (WAP)	route tracing,	slide deck	creator, selection,		
		double-click, click			browser,		ranking, one-way, two-		
		and drag,			World Wide Web,		way, one-to-one, one-		
		Input device,			links, files, download		to-many		

Component: Creating Media								
Class 1 Class 2		Class 3		Class 4				
Reception Expected	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected		
In order to help ensure	Digital writing	<u>Digital</u>	Stop-frame	Photo editing	Video editing	Web page creation		
our Reception children's	To use a	<u>photography</u>	animation	To explain that digital	To recognise video as	To review an existing		
'school readiness' and	computer to write	To know what	To explain that	images can be changed	moving pictures,	website and consider its		
'give them a broad	To add and	devices can be used	animation is a	To change the	which can include	structure		
range of knowledge and	remove text on a	to take	sequence of	composition of an image	audio	To plan the features of		
skills' that provide the	computer	photographs	drawings or	To describe how images	To identify digital	a web page		
right foundation for	To identify that	To use a digital	photographs	can be changed for	devices that can	To consider the		
future learning, we	the look of text	device to take a	To relate animated	different uses	record video	ownership and use of		
introduce the term	can be changed	photograph	movement with a	To make good choices	To capture video	images (copyright)		
Computational Thinking	on a computer	To describe what	sequence of images	when selecting different	using a digital device	To recognise the need		
in Class 1.	To make careful	makes a good	To plan an animation	tools	To recognise the	to preview pages		
	choices when	photograph	To identify the need	To recognise that not all	features of an	To outline the need for		
Using a range of	changing text	To decide how	to work consistently	images are real	effective video	a navigation path		
curriculum resources	To explain why I	photographs can be	and carefully	To evaluate how changes	To identify that video	To recognise the		
created by Barefoot	used the tools	improved	To review and	can improve an image	can be improved	implications of linking		
Computing, we use a	that I chose	To use tools to	improve an		through reshooting	to content owned by		
range of activities to	To compare	change an image	animation		and editing	other people		
introduce	writing on a	To recognise that	To evaluate the		To consider the			
Computational Thinking	computer with	images can be	impact of adding		impact of the choices			
in EYFS. These include a	writing on paper	changed	other media to an		made when making			
wide assortment of			animation		and sharing a video			
familiar activities such	ONLINE SAFETY	ONLINE SAFETY	ONLINE SAFETY	ONLINE SAFETY	ONLINE SAFETY	ONLINE SAFETY		
as water play, outdoor	Word processor,	Natural lighting,	Setting, character,	Image, adjustments,	Export, computer,	Hyperlink, evaluate,		
play, role-play ideas,	keyboard, keys,	artificial lighting,	events, stop frame	effects, colours,	Microsoft Movie	website, web page,		
games and challenges	undo, backspace,	flash, focus,	animation, onion	hue/saturation, sepia,	Maker, split,	implication, external		
	toolbar, bold,	background,	skinning, media,	save, version, illustrator,	trim/clip, edit, titles,	link, embed		
	italic, underline,	foreground,	import, transition	vignette	end credits, timeline,			
	Microsoft Word,	format, framing,			transitions, audio,			
	Google Docs	lighting, focus,			soundtrack, content,			
		filter, changed, real			retake/reshoot			

	Component: Data & Information								
-	Class 1 Class 2		C	lass 3	Class 4				
	Reception Expected	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected		
	In order to help ensure	Grouping data	Pictograms	Branching databases	Data logging	<u>Flat-file databases</u>	Spreadsheets		
	our Reception children's	To label objects	To recognise that	To create questions	To explain that data	To use a form to	To identify questions		
	'school readiness' and	To identify that	we can count and	with yes/no answers	gathered over time can	record information	which can be answered		
	'give them a broad	objects can be	compare objects	To identify the object	be used to answer	To compare paper	using data		
	range of knowledge and	counted	using tally charts	attributes needed to	questions	and computer-based	To explain that objects		
	skills' that provide the	To describe	To recognise that	collect relevant data	To use a digital device to	databases	can be described using		
	right foundation for	objects in	objects can be	To create a	collect data automatically	To outline how	data		
	future learning, we	different ways	represented as	branching database	To explain that a data	grouping and then	To explain that formula		
	introduce the term	To count objects	pictures	To identify objects	logger collects 'data	sorting data allows us	can be used to produce		
	Computational Thinking	with the same	To create a	using a branching	points' from sensors over	to answer questions	calculated data		
	in Class 1.	properties	pictogram	database	time	To explain that tools	To apply formulas to		
		To compare	To select objects by	To explain why it is	To use data collected over	can be used to select	data, including		
	Using a range of	groups of objects	attribute and make	helpful for a	a long duration to find	specific data	duplicating		
	curriculum resources	To answer	comparisons	database to be well	information	To explain that	To create a spreadsheet		
	created by Barefoot	questions about	To recognise that	structured	To identify the data	computer programs	to plan an event		
	Computing, we use a	groups of objects	people can be	To compare the	needed to answer	can be used to	To choose suitable		
	range of activities to		described by	information shown in	questions	compare data	ways to present data		
	introduce		attributes	a pictogram with a	To use collected data to	visually			
	Computational Thinking		To explain that we	branching database	answer questions	To apply my			
	in EYFS. These include a	ONLINE SAFETY	can present			knowledge of a			
	wide assortment of		information using a			database to ask and			
	familiar activities such		computer		ONLINE SAFETY	answer real-world			
	as water play, outdoor					questions			
	play, role-play ideas,		ONLINE SAFETY						
	games and challenges	Group, object,	Attribute, compare,	Branching database,	Input device, sensor, data	Database, record,	Graph, chart, evaluate,		
		property, value,	tally chart,	attribute, value,	logger, analyse, review,	field, graph, chart,	results, comparison,		
		label, colour, data	pictogram, more	questions, j2data,	conclusion	axis, compare, filter	questions, software,		
		set, more, less,	than, less than,	pictogram, compare,			tools, data, formula,		
		most, least,	most popular, least	information, decision			calculation, data,		
		fewest, the same	popular,	tree			spreadsheet, input,		
			conclusion				output, cells, cell		
							reference		

Component: Programming							
Class 1	Class 2		Class 3		Class 4		
Reception Expected	Year 1 Expected	Year 2 Expected	Year 3 Expected	Year 4 Expected	Year 5 Expected	Year 6 Expected	
In order to help ensure	Introduction to	Introduction to	Events and actions	Repetition in games	Selection in quizzes	Variables in games	
our Reception children's	animation	<u>quizzes</u>	To explain how a	To develop the use of	To explain how	To define a 'variable' as	
'school readiness' and	To choose a	To explain that a	sprite moves in an	count-controlled loops in	selection is used in	something that is	
'give them a broad	command for a	sequence of	existing project	a different programming	computer programs	changeable	
range of knowledge and	given purpose	commands has a	To create a program	environment	To relate that a	To explain why a	
skills' that provide the	To show that a	start	to move a sprite in	To explain that in	conditional	variable is used in a	
right foundation for	series of	To explain that a	four directions	programming there are	statement connects a	program	
future learning, we	commands can be	sequence of	To adapt a program	infinite loops and count	condition to an	To choose how to	
introduce the term	joined together	commands has an	to a new context	controlled loops	outcome	improve a game by	
Computational Thinking	To identify the	outcome	To develop my	To develop a design	To explain how	using variables	
in Class 1.	effect of changing	To create a	program by adding	which includes two or	selection directs the	To design a project that	
	a value	program using a	features	more loops which run at	flow of a program	builds on a given	
Using a range of	To explain that	given design	To identify and fix	the same time	To design a program	example	
curriculum resources	each sprite has its	To change a given	bugs in a program	To modify an infinite loop	which uses selection	To use my design to	
created by Barefoot	own instructions	design	To design and create	In a given program	To create a program	create a project	
Computing, we use a	To design the	To create a	a maze-based	To design a project that	which uses selection	To evaluate my project	
range of activities to	parts of a project	program using my	challenge	Includes repetition	To evaluate my		
Computational Thinking	TO use my	To deside how my		includes repetition	program		
in EVES. Those include a		no decide now my		includes repetition			
wide assortment of	create a program	improved					
familiar activities such	Block joining	Seguence	Design code cotur	Popotition forever	Organica zoom	Task algorithm dosign	
as water play, outdoor	Command start	sequence,	tost dobug actions	infinite loop count	coloct rotato object	artwork program	
as water play, outdoor		commanu,	events	controlled loop, count-	select, rotate, object,	artwork, program,	
games and challenges	DIOCK, TUII,	program blocks	events	controlled loop, animate,	rosizo, handlos	dobug variable set	
games and chancinges	programming	actions sprite		duplicate	consistency modify	change design event	
	area background	nroject blocks		uplicate	lavers object front	change, design, event	
	delete reset	design sequence			hack order		
	algorithm	modify change			back, order		
	predict	mouny, change					
	product						