

BLEAK HILL PRIMARY SCHOOL

Computing Long Term Plan 2024-2025





Vision 👗	Intent 🏵	Implementation 🎾	
At Bleak Hill Primary School,	It is our intention to enable	Computing is taught in	Retrieval based learning
we understand that	Children to find, explore,	discrete lessons following the	techniques for every lesson in
Technology is changing the	analyse, exchange and present	National Curriculum as a	the sequence.
lives of everyone. Through	information. We also focus	basis, with statutory content	
teaching Computing, we equip	on developing the skills	being taught using the Purple	
Children to partiCipate in a	necessary for children to be	Mash scheme of work. There	Evaluations for each lesson to
rapidly Changing world where	able to use information in a	are many opportunities to	provide formative assessment
work and leisure activities are	discriminating and effective	embed these skills through	and to inform planning for
increasingly transformed by	way. Computing skills are a	other areas of the CurriCulum	future sessions.
technology.	major factor in enabling	through Cross-CurriCular	
	Children to be Confident,	aCtivities.	
	Creative and independent		
'if we teach today as we	learners and it is our intention		
taught yesterday, we rob our	that Children have every	The children have access to	
Children of tomorrow' – John	opportunity available to allow	hardware (laptops, iPad, and	
Dewey.	them to achieve this.	Beebots) throughout the	
		week.	



Bleak Hill Primary School Computing Overview

Computing	Computer Science			Infor	mation TeChnol	Nogy Digital Lite			racy	
EYF\$	In Reception, children will being to develop their technological understanding through a variety of planned and independent play based tasks. The EYFS aims for the children to develop the following: Recognise that a range of technology is used in places such as homes and schools. Select and use technology for particular purposes									
YEAR1	Unit 1:1 Online Safety and Exploring Purple Mash (4 weeks)	Unit 1.2 Grouping and Sorting (2 weeks)	Uhit 1.3 Pictograms (3 weeks)	Unit 1.4 Lego Builders (3 weeks)	Unit 1.5 Maze Explorers (3 weeks)	Unit 1.6 Animated Story Books (5 weeks)	Unit 1.7 Coding (6 weeks)	Uhit 1.9 Techhology Outside School (2 weeks)		
YEAR2	()hit 22 Ohline Şafety (3 weeks)	Unit 2.3 Coding (5 weeks)	(Jhit 2.3 Spreadsheets (4 weeks)	Unit 2.4 Questiohing (s weeks)	Unit 2.5 Effective Searching (3 weeks)	Unit 2.6 Creating pictures (5 weeks)	Unit 2.7 Making music (3 weeks)	Unit 2.8 Presenting Ideas (5 weeks)		
YEAR3	Unit 3.2 Ohline Şafety (3 weeks)	Unit 3.1 Coding (6 weeks)	()hit 3.3 Spreadsheets (3 weeks)	Unit 3.4 Touch Typing (4 weeks)	Unit 3.5 Email (inc. email safety) (6 weeks)	(Jhit 3.6 BrahChing Databases (4 weeks)	()hit 3.7 Simulations (3 weeks)	(Jhit 3.8 Graphing (3 weeks)	Unit 3.9 Presenting using Microsoft PowerPoint (5/6 weeks)	(Dhit 3.10 DiCROCRISE) (4 weeks)
YEAR 4	() hit 4.2 Online Safety (4 weeks)	Ohit 4.1 Coding (6 weeks)	Unit 4.4 Writing for Different Audiences (s weeks)	()nit 4.5 Logo (4 weeks)	(Jhit 4.6 AhimatiOh (3 weeks)	Unit 4.7 Effective Search (3 weeks)	Unit 4.8 Hardware Investigators (2 weeks)	Uhit 4.9 Making Music (4 weeks)	Unit 4.10 Artificial Intelligence (4weeks)	Unit 4.11 Mickskiss (4 weeks)
YEAR.5	(Dhit 5.2 Ohline Şafety (3 weeks)	Unit 5.1 Coding (6 weeks)	()hit 5.3 Spreadsheets (6 weeks)	()nit 5.4 Databases (4 weeks)	Unit 5.5 Game Creator (s weeks)	Unit 5.6 3D Modelling (4 weeks)	()hit 5.7 Cohcept Maps (4 weeks)	Unit 5.8 Word Processing using Microsoft Word (8 weeks)	Unit 5.9 Using External Devices (6 weeks)	Unit 5.20 DICREDISE (4 weeks)
YEAR.6	Unit 6.2 Ohline Safety (2 weeks)	Unit 6.1 Coding (6 weeks)	()hit 6.4 Blogging (4 weeks)	Unit 6.5 T ext adventures (s weeks)	Unit 6.6 Networks (3 weeks)	(Jhit 6.7 Quizzing (6 weeks)	()hit 6.8 ()hderstanding Binary (4 weeks)	Unit 6.9 Spreadsheets using Microsoft Excel (8 weeks)	()nic 6.00 DiGO3bits. (4 weeks)	



		Computer Science		Information Technology	Digital Literacy		
Year 1 National Curriculum Statements	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	Create and debug simple programs.	Use logical reasoning to predict the behaviour of simple programs	Use technology purposefully to Create, organise, store, manipulate and retrieve digital Content.	Recognise common uses of information technology beyond school	(Jse technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about Content or contact on the internet or other online technologies	
Year 1 Purple Mash outcomes	Children understand that an algorithm is a set of instructions used to solve a problem or achieve an objective. They know that an algorithm written for a computer is called a program.	Children Can work out what is wrong with a simple algorithm when the steps are out of order, e.g. The Wrong Sandwich in Purple Mash and Can write their own simple algorithm, e.g. Colouring in a Bird activity. Children know that an unexpected outcome is due to the code they have Created and Can make logical attempts to fix the code, e.g. Bubbles activity in 2Code	When looking at a program, Children Can read Code online at a time and make good attempts to envision the bigger picture of the overall effect of the program. Children Can, for example, interpret where the turtle in 2Go Challenges will end up at the end of the program.	Children are able to sort, Collate, edit and store simple digital Content e.g. Children Can name, save and retrieve their work and follow simple instructions to access online resources, use Purple Mash 2Quiz example (sorting shapes), 2Code design mode (manipulating backgrounds) or using pictogram software such as 2Count.	Children understand what is meant by technology and Can identify a Variety of examples both in and out of school. They Can make a distinction between objects that use modern technology and those that do not e.g. a microwave Vs. a Chair	Children understand the importance of keeping information, such as their usernames and passwords, private and actively demonstrate this in lessons. Children take ownership of their work and save this in their own private space such as their My Work folder on Purple Mash	



Vocabulary	Unit 1.2 - Grouping and Sorting	Unit 1.3 - Pictograms	Unit 1.1 - Online Safety and Exploring Purple
	Sort, criteria, describe, more than, less than, equal groups, algorithm Unit 1.4 - Lego Builders instructions, algorithm, program, machine, computer, recipe, debugging, code, sequence	data, pictogram, visual, title, collect data, record results, compare, totals	Mash login, password, private, home screen, work area, avatar, icon, typing, saving, save, log out, alert, notification, communication, device, search, filter, shared folders, filename, Topic Area, writing template, textbox, toolbar, menu, think about box, Purple Mash Tools, button
	Ünit 1.5 - Maze Explorers instructions, direction, forwards, backwards, left, right, keys, challenge, undo, rewind, route, delete, command, Unit algorithm, debug	Unit 1.3 - Pictograms data, pictogram, visual, title, collect data, record results, compare, totals	Unit 1.1 - Online Safety and Exploring Purple Mash login, password, private, home screen, work area, avatar, icon, typing, saving, save, log out, alert,
	Ünit 1.7 – Coding instructions, algorithm, code, programmer, coding, software, code blocks, object, action, 2Do, command, Design View, Code view, debug\ debugging, run, Event, click, sound, when clicked, output, Execute, background, scale, scene, properties, plan		notification, communication, device, search, filter, shared folders, filename, Topic Area, writing template, textbox, toolbar, menu, think about box, Purple Mash Tools, button
Curriculum Links	Maths	Maths	PSHE



		Computer Science			Digital Literacy		
Year 2	Understand what	Create and debug	Use logical reasoning	Use technology	Recognise common	Use technology safely	
NC	algorithms are; how	simple programs.	to predict the	purposefully to Create,	uses of information	and respectfully,	
Statements	they are implemented		behaviour of simple	organize, store,	technology beyond	keeping personal	
	as programs on digital		programs.	manipulate and retrieve	school	information private;	
	devices; and those			digital Content.		identify where to go	
	programs execute by					for help and support	
	following precise and					when they have	
	unambiguous					concerns about	
	instructions.					Content or ContaCt	
						on the internet or	
						other online	
						technologies	
Year 2	Children Can explain	Children Can Create a	Children Can identify	Children demonstrate	Children Can	Children know the	
PM	that an algorithm is a	simple program that	the parts of a program	an ability to organise	effectively retrieve	implications of	
outcomes	set of instructions to	achieves a specific	that respond to	data using, for	relevant, purposeful	inappropriate online	
	Complete a task. When	purpose. They Can also	specific events and	example, a database	digital Content using a	searches. Children	
	designing simple	identify and CorreCt	initiate specific	such as 2]nvestigate	search engine. They	begin to understand	
	programs, Children	some errors, e.g.,	actions. For example,	and Can retrieve	Can apply their	how things are shared	
	show an awareness of	Debug Challenges:	they Can write a	specific data for	learning of effective	electronically such as	
	the need to be precise	Chimp. Children's	Cause-and-effect	Conducting simple	searChing beyond the	posting work to the	
	with their algorithms	program designs	sentence of what will	searches. Children are	Classroom. They Can	Purple Mash display	
	so that they Can be	display a growing	happen in a program.	able to edit more	share this knowledge,	board. They develop	
	successfully	awareness of the need		Complex digital data	e.g. 2Publish example	an understanding of	
	converted into code	for logical,		such as music	template. Children	using email safely by	
		programmable steps.		Compositions within	make links between	using 2Respond	
				2Sequence. Children	technology they see	activities on Purple	
				are confident when	around them, coding	Mash and know ways	



Creating, r	naming, saving and multimedia w	ork of reporting
and retrie	ving Content. they do in school	e.g. inappropriate
Children	use a range of animations,	behaviours and
media in t	heir digital interactive code a	and Content to a trusted
Content ir	nCluding programs.	adult
photos, te	ext and	
sound.		
VocabularyUnit 2.1 - CodingUnit 2.3 -	Spreadsheets Cluit 2	.2 - Online Safety
Instruction, algorithm, event, object, action, command, scene, background, Spreadshe		
properties, scale, click events, collision, detection, predict, Interaction, collision column, ce	ال, delete, search, filter, interne	et, sharing, display board,
detection event, collision detection action, image, implement, Timer, interval, calculation	s, select, Email, attachment, r	reply, personal information,
sequence, output, Properties, turtle, object, when key event, when swiped Button, dat	a, image, private information,	digital footprint, protection,
event, when clicked event, Button, object name, text, Bug, debugging, test move cell,	Clipart, image identifying, secure	
value, Tota	_	
	t tool, speak	
tool, data, d	data table,	
graph		
Ünit 2.4 -	Questioning	
Pictogram,		
	n, Sort, avatar,	
question, b		
	record, field,	
search		
		.2 - Online Safety
Art, Impres	search, filler, file	ernet, sharing, display board,
	Le, Pointillism, Email, attachment	t, reply, personal information,
	e, fill, vertical,	n, digital footprint, protection,
horizontal, pattern, pa	repeating	ntifying, secure
diagonal, re	,	
	Surrealism, e-	
collage, sta		



	Ünit 2.7 - Making Music
	Tune, compose, note,speed, beats, volume,Tempo, sound effect,repeat, bars, Soundtrack
Curriculum Links	Art, Maths, Music, PHSE English

		Computer Science				Information Technology		
Year 3 NC Statements	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Use sequence, selection and repetition in programs; work with Variables and Various forms of input and output.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Understand Computer networks, including the internet; how they Can provide multiple services, such as the World Wide Web, and the opportunities they Offer for Communication and Collaboration.	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Select, use and Combine a Variety Of software (including internet services) on a range of digital devices to design and Create a range Of programs, systems and Content that aCComplish given goals, including Collecting, analysing, evaluating and presenting data and information.	Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.	



	1		1		1		PRIMARY SCHOOL
Year 3 PM outcomes	Children Can turn a simple real-life situation into an algorithm for a program by deconstructing it into manageable parts. Their design shows that they are thinking of the desired task and how this translates into code. Children Can identify an error within their program that prevents it following the desired algorithm and then fix it	Children demonstrate the ability to design and Code a program that follows a simple sequence. They experiment with timers to achieve repetition effects in their programs. Children are beginning to understand the difference in the effect of using a timer Command rather than a repeat Command when Creating repetition effects. Children understand how Variables Can be used to store information while a program is executing.	Children's designs for their programs show that they are thinking of the structure of a program in logical, achievable steps and absorbing some new knowledge of Coding structures. For example, 'if' statements, repetition and Variables. They make good attempts to 'step through' more Complex code in order to identify errors in algorithms and Can Correct this. E.g. traffic light algorithm in 2Code. In programs such as Logo, they Can 'read' programs	Children Can list a range of ways that the internet Can be used to provide different methods of communication. They Can use some of these methods of communication, e.g. being able to open, respond to and attach files to emails using 2Email. They Can describe appropriate email conventions when communicating in this way.	Children Can Carry out simple searches to retrieve digital Content. They understand that to do this, they are Connecting to the internet and using a search engine such as Purple Mash search or internet-wide search engines.	Children Can Collect, analyse, evaluate and present data and information using a selection of software, e.g. using a branching database (2Question), using software such as 2Graph. Children Can consider what software is most appropriate for a given task. They Can create purposeful Content to attaCh to emails, e.g. 2Respond.	Children demonstrate the importance of having a secure password and not sharing this with anyone else. Furthermore, Children Can explain the negative implications of failure to keep passwords safe and secure. They understand the importance of staying safe and the importance of their conduct when using familiar communication tools such as 2Email in Purple Mash. They know more than one way to report unacceptable



	with several steps		Content and
	and predict the		ContaCt.
	outcome		
	accurately.		
7ocabulary			
	Unit 3.1 – Coding	Unit 3.3 – Spreadsheets	Unit 3.2 - Online
	Algorithm, background, Object, implement, predict, run, flowchart, properties, when click	ed, pie chart, data, table, bar graph, advanced	Safety
	when key, Timer, sequence, nested, Repeat, input, command, button, right-angle, degree	made call address Quizteal formula	password, personal
	Nesting, test, debug, Actions, object type, alert, Actions, object type, alert	wizard, formula bar, spin tool (extension),	information, blog.
		equal tool, random number tool, spinner	Permission, vlogs,
		tool, timer tool, line graph, data, data	appropriate, Interne
		table, budget, range	website, spoof,
		Ünit 3.4 – Touch Typing	verify, reputable
		Posture, typing, keys, spacebar	source, Inappropriate,
		Unit 3.6 – Branching	Permission
		Data, database, branching database, binary	
		tree, Debugging	
	(Jnit 3.10 – miCro:bits	Unit 3.7 - Simulations	Ünit 3.5 - Email
		simulation, modelling, advantages,	(inc. email safety
	Hardware, LED, Repeat, Program, Software , Animation, image, infinite loop, output,	disadvantages, point-of-view, solution,	Communication,
	sequence, Data, input, selection", Accelerometer, gestures, sound output, speaker	realistic, unrealistic, analysis, decision,	mind mapping, nod
		evaluation Unit 3.8 Graphing	link, Email, compose
			address book, inbox
		graph, chart, title, sort, axis, data, row, column, investigation, tally chart, survey	trusted contact, personal informatio
		Unit 3.9 - Presenting using Microsoft	password, save to
		PowerPoint	draft, attachment,
		textbox, presentation, font formatting,	CC - carbon copy



	video, animation, transition, preview, sound effect, duration, timing, review	BCC - blind carbon copy
Curriculum Links	Maths	PHSE

		Compute	er Science		Information Techn	ology	Digital Literacy
Year 4 NC Statements	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Use sequence, selection and repetition in programs; work with Variables and Various forms of input and output.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Understand Computer networks, including the internet; how they Can provide multiple services, such as the World Wide Web, and the opportunities they Offer for Communication and Collaboration	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Select, use and Combine a variety Of software (including internet services) on a range of digital devices to design and Create a range Of programs, systems and Content that aCComplish given goals, including Collecting, analysing, evaluating and presenting data and information.	Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.



PM	When turning a	Children's use of	Children's designs	Children recognise	Children	Children are able	Children can
outcomes	real-life situation	timers to achieve	for their programs	the main	understand the	to make	explore key
	into an algorithm,	repetition effects	show that they are	Component parts of	function,	improvements to	concepts relating
	the Children's	are becoming more	thinking of the	hardware which	features and	digital solutions	to online safety
	design shows that	logical and are	structure of a	allow computers to	layout of a search	based on	using ConCep t
	they are thinking	integrated into	program in logiCal,	join and form a	engine. They Can	feedback.	mapping such as
	of the required	their program	achievable steps	network. Their	appraise selected	Children make	2Connect. They
	task and how to	designs. They	and absorbing	ability to	webpages for	informed software	Can help others to
	accomplish t his in	understand 'if	some new	understand the	Credibility and	choices when	understand the
	code using coding	statements' for	knowledge of	online safe t y	information at a	presenting	importance of
	structures for	selection and	Coding structures.	impliCations	basic level.	information and	online safety.
	selection and	attempt to	For example, 'if'	associated with the		data. They Create	Children know a
	repetition.	combine t hese	statements,	ways the internet		linked Content	range of ways of
	Children make	with other Coding	repetition and	Can be used to		using a range of	reporting
	more intuitive	structures	variables. They Can	provide different		software such as	inappropria t e
	attempts to debug	including variables	trace code and use	methods of		2Connect and	Content and
	their own	to achieve the	step-through	communication is		2Publish+.	ContaCt.
	programs.	effects that they	methods to	improving.		Children share	Computing
		design in their	identify errors in			digital Content	Progression N.C.
		programs. As well	code and make			within their	Statements KS2
		as understanding	logical attempts to			Community, i.e.	Year 4
		how variables Can	CorreCt this. e.g.			using Virtual	
		be used to store	traffic light			Display Boards.	
		information while a	algorithm in				
		program is	2Code. In				
		executing, they are	programs such as				
		able to use and	Logo, they Can				
		manipulate the	'read' programs				
		value of variables.	with several steps				
			1			1	1



	Children Can make use of user inputs and outputs such as 'print to screen'. e.g. 2Code.	and predict the OutCome aCCurately.				
Vocabulary	Unit 4.1 background, button, object, properties, code bl selection, if statement, decision, command, cod statement, inputs, execute, variable, number v	ock, predict, event, deb ordinate, flowchart, rep				Unit 4.2 - Online Safety report, SMART rules, Spam.
	2Logo, grid, run speed, Logo commands (e.g. F multi-line mode, debugging, Repeat, Procedur	e, SETPC, SETPS are Investigators motherboard, CPU, RA	Unit 4.6 - Animation animation, frame, fps (frames per second), pause, onion skinning, stop motion Unit 4.7 - Effective Search search engine, results page, Internet, key words, reliability, easter eggs, balanced view"		 AttaChment, phishing, digital footprint, malware, software, Virus, AdFly, ransomware, cookies, plagiarism, watermark, 	
	4.11- miCro:bits Accelerometer, Data, Sensor, Variable, Infinite loop, Logic, Light sensor, Variable, Conditionals, Gestures, Selection, Simulation, Variable, Conditionals, Gestures, Selection, Simulation, Logic			Unit 4.9 - Making Music pulse, rhythm, tempo, pitch, texture, melody, dynamics, bpm, synth, harmonious" Unit 4.10 - Artificial Intelligence Algorithm, Artificial Intelligence, Data		Citation, Copyright, Collaborating data analysis, Collaborative database
Curriculum Links				music		PHSE



		Computer Science			Information Techn	Digital Literacy	
Year 5	Design, write and	Use sequence,	(Jse logical	Understand	Use search	Select, use and	(Jse technology
1001 5	debug programs	selection and	reasoning to	Computer networks,	technologies	Combine a Variety	safely, respectfully
NC Statements	that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	repetition in programs; work with Variables and Various forms of input and output.	explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	including the internet; how they Can provide multiple services, such as the World Wide Web, and the opportunities they Offer for Communication and Collaboration.	effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital Content.	of software (including internet services) on a range of digital devices to design and Create a range of programs, systems and Content that aCComplish given goals, including Collecting, analysing, evaluating and presenting data and information.	and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.
PM	Children may	Children Can	When Children	Children	Children search	Children are able	Children have a
outcomes	attempt to turn	translate	Code, they are	understand the	with greater	to make	secure knowledge
	more complex real-	algorithms that	beginning to think	Value of Computer	Complexity for	appropriate	of common online
	life situations into	include sequence,	about their Code	networks but are	digital Content	improvements to	safety rules and
	algorithms for a	selection and	structure in terms	also aware of the	when using a	digital solutions	Can apply this by
	program by	repetition into	of the ability to	main dangers. They	search engine.	based on feedback	demonstrating the
	deconstructing it	Code with	debug and	recognise what	They are able to	received and Can	safe and respectful
	into manageable	increasing ease and	interpret the Code	personal	explain in some	Confidently	use of a few



							PRIMARY SCHOOL
	parts. Children are	their own designs	later, e.g. the use	information is and	detail how	Comment on the	different
	able to test and	show that they are	of tabs to organise	Can explain how	Credible a	success of the	technologies and
	debug t heir	thinking of how to	Code and the	this Can be kept	webpage is and	solution. e.g.	online services.
	programs as they	accomplish the set	naming of	safe. Children can	the information it	Creating their own	Children implicitly
	go and Can use	task in Code	variables.	select the most	contains.	program to meet a	relate appropriate
	logical methods to	utilising such		appropriate form of		design brief using	online behaviour to
	identify the	structures. They		online		2Code. They	their right to
	approximate Cause	are Combining		communications		objectively review	personal privacy
	of any bug but may	sequence,		contingent on		solutions from	and mental
	need some support	selection and		audience and digital		others. Children	wellbeing of
	identifying the	repetition with		content, e.g. 2Blog,		are able to	themselves and
	specific line of	other Coding		2Email, Display		Collaboratively	others.
	code	structures to		Boards		Create Content	
		aChieve their				and solutions using	
		algorithm design.				digital features	
						within software	
						such as	
						Collaborative	
						mode. They are	
						able to use several	
						ways of sharing	
						digital Content, i.e.	
						2Blog, Display	
						Boards and 2Email	
			• · · · -				
Vocabulary		_	- Coding			preadsheets	Unit 5.2 - Online
		sion, object, action, varia			Converting values, in	•	Safety
		puter-generated variab ition, abstraction, Frictio		metric measures, Per	imeter, area, I, count tool, dice tool		
	properties, Decompos		n, function, predict, Stri	iy, variables, values,			



	tabs, text variable, collision, when key, random, output, Concatenation, print to screen, tabs, 'if' statement, 'if/else' statement Unit 5.5 – Game evaluation, theme, scene, textures, images, screenshot, quest, instructions, feedback, promotion Unit 5.10 - miCro:bits accelerometer*, input*, LED*, Output*, Sensor*, Simulation*, Gestures, IF/THEN, Logic, Variable*Previous micro:bit units, Ambient temperature, Data, Thermometer, Thermostat, Selection, Input, Sensor, Simulation, Variable, Crocodile clip, Electrical circuit, Pins, Variable	budget, profit, computational model, expenses, hypothesis, variables Unit 5.4 – Databases database, search, record, field, sort, group, arrange, statistics, reports, charts avatar, collaborative Unit 5.6 - 3D Modelling Net, template, 3D view, pattern fill, Points, design brief, 3D Printing Unit 5.7 - Concept Maps Concept, node, connections, story mode, heading, sub-heading, collaborate, presentation mode Unit 5.8 - Word Processing using <u>Microsoft</u> Word Processing Tool, document, front screen, zoom, selecting\highlighting, font, formatting, page orientation, copy and paste, copyright, creative commons, attributing, image editing, cropping, image, transparency, text wrapping, styles, bulleted list, numbered list, drop capital,	responsibility, SMART rules, encrypt, critical thinking, image, manipulation, avatar, citation, validity, reliability,, plagiarism, bibliography, copyright, creative, commons licence, communication
		bulleted list, numbered list, drop capital, text box, caption, hyperlink, WordArt, merge cells, column, row, distributing columns, grammar check, spell check, template, columns	
Curriculum Links		Maths	PHSE



		Compute	er Science		Information Techn	ology	Digital Literacy
Year 6 NC Statements	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Use sequence, selection and repetition in programs; work with Variables and Various forms of input and output.	se logical reasoning to explain how some simple algorithms work and to detect and Correct errors in algorithms and programs.	Understand Computer networks, including the internet; how they Can provide multiple services, such as the World Wide Web, and the opportunities they Offer for Communication and Collaboration.	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital Content.	Select, use and Combine a variety Of software (including internet services) on a range of digital devices to design and Create a range Of programs, systems and Content that aCComplish given goals, including Collecting, analysing, evaluating and presenting data and information.	Use technology safely, respectfully and responsibly; recognise aCceptable/ unacceptable behaviour; identify a range of ways to report Concern about Content and contaCt.
PM outcomes	Children are able to turn a more Complex programming task into an algorithm by identifying the	Children translate algorithms that include sequence, selection and repetition into code and their	Children are able to interpret a program in parts and Can make logiCal attempts to put the separate	Understand Computer networks, including the internet; how they Can provide multiple services,	Children readily apply filters when searChing for digital Content. They are able to explain in detail	Children make Clear connections to the audience when designing and Creating digital Content.	Children demonstrate the safe and respectful use of a range of different technologies and



	important aspects	own designs show	parts of a complex	such as the World	how Credible a	The Children	online services.
	of the task	that they are	algorithm together	Wide Web, and the	webpage is and	design and Create	They identify more
	(abstraction) and	thinking of how to	to explain the	opportunities they	the information it	their own blogs to	discreet
	then decomposing	accomplish the set	program as a	offer for	contains. They	become a content	inappropriate
	them in a logical	task in Code	whole.	CommuniCation and	Compare a range	Creator on the	behaviours
	way using their	utilising such		collaboration.	of digital Content	internet, e.g.	through developing
	knowledge of	struCtures,			sources and are	2Blog. They are	CritiCal thinking,
	possible coding	including nesting			able to rate them	able to use Criteria	e.g. 2Respond
	structures and	structures within			in terms of	to evaluate the	activities. They
	applying skills from	each other.			Content quality	quality of digital	recognise the value
	previous programs.	Coding displays an			and accuracy.	solutions and are	in preserving their
	Children test and	improving			Children use	able to identify	privacy when online
	debug their	understanding of			CritiCal thinking	improvements,	for their own and
	program as they go	Variables in Coding,			skills in everyday	making some	o t her people's
	and use logical	outputs such as			use of online	refinements.	safety.
	methods to	sound and			communication.		
	identify the cause	movement, inputs					
	of bugs,	from the user of					
	demonstrating a	the program such					
	systematiC	as bu tt on clicks					
	approach to try to	and the value of					
	identify a	functions.					
	partiCular line of						
	code Causing a						
	problem.						
Vocabulary		Unit 6.1	– Coding	Unit 6.4 – Blogging		Ünit 6.2 - Online	
	algorithm, action, output, selection, variables, repeat, timer, launch, command, debug, alert,				blog, vlog, archive, blog post, collaborate,		Safety
	string, x and y propert	ies, coordinates, decom	position, object, event, f	unction, turtle object,	nodes, connections, c	ommenting, approval	



	text object, execute, function call, tabs, flowchart, simulation, procedure, input, concatenation text adventure	Unit 6.7 – Quizzing quiz, audience, copy\paste, selfie, undo\redo, audio, clipart, image filter, preview, case-sensitive, cloze, database, record, field, statistics, data, survey, participants, data, analysis Unit 6.9 - Spreadsheets using Microsoft Excel spreadsheet, cell, cell reference, data, column, row, workbook, sheet, categories ribbon, formula, formulae, calculation, formula, bar, series, computational model, template, budget, expense, formatting, currency, delimiter, sorting, flash fill, auto- fit, filter, average, minimum, maximum graph, chart, horizontal axis, vertical axis, conditional formatting, budget, profit	secure websites, location sharing, spoof, websites, phising, password, PEGI, digital footprint,, inappropriate print screen, screen time, data analysis
Curriculum Links		Maths	PHSE