



**Upper KS2 Computing** 

Y5/6 Cycle A			Cycle B		
Autumn 1	Spring 1	Summer1	Autumn 1	Spring 1	Summer 1
• •	Creating Media 3D modelling (6)	Creating Media Introduction to vector graphics (5)		Programming <u>Variables in Games (6)</u>	Data and information Introduction to spreadsheets (6)
help us search the internet? Recognising IT systems in the world and how some can enable searching on the	computer model of a physical object? Planning, developing, and	images? Creating images in a drawing program by	to work collaboratively? Exploring how data is transferred by	How can we create variables to code a game? Exploring variables when designing and coding a game. (Scratch)	How can we use a spreadsheet to organise and calculate data? Answering questions by using spreadsheets to organise and calculate data. (Excel)
together to form systems  2.I can recognise the role of computer systems in our lives  3.I can recognise how information is transferred over the internet  4.I can explain how sharing information online lets people in different places work together	2.I can compare working digitally with 2D and 3D graphics	combining shapes 3.I can use tools to achieve a desired effect 4. I can recognise that vector drawings consist of layers 5.I can group objects to make them easier to work with 6.I can evaluate my vector drawing	internet addresses.  2.I can identify and explain the main parts of a data packet.  3.I can explain how sharing information online can help people to work together.	6.I can evaluate my project	1.I can identify questions which can be answered using data 2.I can explain that objects can be described using data 3. I can explain that formulas can be used to produce calculated data 4.I can apply formulas to data, including duplicating 5.I can create a spreadsheet to plan an event 6.I can choose suitable ways to present data
input, process, output, Search, search engine,	resize, lift, lower, recolour	move, resize, colour, rotate, duplicate/copy, Zoom, select, rotate,	address, Internet Protocol (IP) address, Domain Name Server (DNS)	Variable, change, name, value, set, change , design, event , algorithm, code, Task, artwork, program, project, code, test, debug, Improve, evaluate, share	Data, collecting, table, structure, spreadsheet Cell, cell reference, data item, format Formula, calculation, data,





Ordering, ranking, links,	Cylinder, placeholder, hollow,	paste, group, ungroup, duplicate, vector	explore, slide deck Reuse, remix,		spreadsheet, input, output,
algorithm, optimisation	choose, combine, Construct,	drawing, reuse, Reflection, vector	collaboration, public, private, one-		calculate, operation, range,
(SEO) web crawler, content	evaluate, modify	drawing	way, two-way, one-to-one Internet		duplicate, sigma Propose,
creator, selection, ranking			Communication, one-to-many		question, data set, organised,
					formula, Chart, evaluate,
					results, comparison, questions,
					software, tools
Natterhub E-Safety focus	Natterhub E-Safety focus	Natterhub E-Safety focus	Natterhub E-Safety focus 2	Natterhub E-Safety focus	Natterhub E-Safety focus
			Natterhubs		
Year 6	Year 6	Year 6		Year 5	Year 5
Feel it – Lesson 1	Mind it – Lesson 1	Feel it – Lesson 2	Year 5	Think it – Lesson 1	Chat it – Lesson 3
To understand how to react		To know how to gather evidence of	Feel it – Lesson 1	To understand the risks associated with	To understand how to deal
to concerns online and what	positive online reputation.	online bullying and what to do with the	To recognise when someone is	posting information online.	with the emotions associated
help is available if we have a		evidence.	upset, hurt or angry online.		with feeling left out.
	Secure it – Lesson 1			Mind it – Lesson 2	
		Balance it – Lesson 1	Chat it – Lesson 1	To describe how information found online	-
	manage and remember	I can identify and resist online	To recognise negative online	can be used to make judgements about	To explore how accurate and
	passwords.	temptations and pressures.	behaviour and know what to do if I	individuals.	reliable the information we see
importance of respectful			encounter it.		online is.
		Chat it – Lesson 2		Secure it – Lesson 2	_
	•	To recognise the problems that can come			Feel it – Lesson 3
	0.	with sharing information online.	To understand what makes an	· ·	To understand how to protect
· ·	throughout the world.		effective online searcher.		myself from negative
engines work and how		Question it – Lesson 3			behaviour online.
		To learn how to be a discerning	Balance it – Lesson 1	To understand the internet is a valuable	
		consumer of digital content.		8	Balance it – Lesson 3
	certain types of cybercrime.		can negatively impact my health and		I have strategies I can use to
Think it – Lesson 2			wellbeing in different ways.		promote digital wellness.
To understand what positive					
and negative online					
interactions look like and					
how we can respond to					
them. Autumn 2	Spring 2	Summer 2	Autumn 2	Spring 2	Summer 2
Autumii 2	Spring 2	Summer 2	Autumin 2	Spring 2	Suffifier 2
		Programming	Creating Media	Programming	Creating Media
	Flat file databases (5)	Selection in quizzes (5)	Website creation (6)	Sensing Movement (6)	Video Production (5)
computing (5)					
How can we program a	How can we use a database	How can we design and code an	How can we design and create a	How can we code a project that uses	How can we produce a short
		interactive quiz?	_		film?
	-	I			Planning, capturing, and
-		design and code an interactive quiz.	giving consideration to copyright,		editing video to produce a
_	questions.	(Scratch)	aesthetics, and navigation.	l · · · · · · · · · · · · · · · · · · ·	short film.
	(:a		(Google sites)		(Microsoft Photos)
	(j2data Database)		(Google Sites)		(WIICIOSOIL PIIOLOS)



1.I can control a simple	1. I can use a form to record	1.I can explain how selection is used in	1.I can review an existing website	1.I can create a program to run on a	1.I can explain what makes a
circuit connected to a	information	computer programs	and consider its structure	controllable device	video effective
computer					
		2. I can relate that a conditional	1.I can plan the features of a web	2.I can explain that selection can control	2.I can identify digital devices
2.I can write a program that	computer based databases	statement connects a condition to an	page	the flow of a program	that can record video
includes count-controlled		outcome			
loops	3.I can outline how grouping			3.I can update a variable with a user input	
	and then sorting data allows	· · · · · · · · · · · · · · · · · · ·	use of images (copyright)		range of techniques
3.I can explain that a loop	us to answer questions	flow of a program		3.I can use a conditional statement to	
can stop when a condition is			4.I can recognise the need to	compare a variable to a value	4.I can create a storyboard - I
met		4.I can design a program which uses	preview pages		can identify that video can be
	be used to select specific dat	selection		4.I can design a project that uses inputs	improved through reshooting
4.I can explain that a loop	a			and outputs on a controllable device	and editing
can be used to repeatedly	l · · · · · · · · · · · · · · · · · · ·	5.I can create a program which uses	navigation path		
check whether a condition	programs can be used to	selection		5.I can develop a program to use inputs	5.I can consider the impact of
has been met	compare data visually		6.I can recognise the implications of	and outputs on a controllable device	the choices made when making
		6.I can evaluate my program	linking to content owned by other		and sharing a video
5.I can design a physical	6.I can apply my knowledge		people		
project that includes	of a database to ask and				
selection	answer real-world questions				
6. I can create a program					
that controls a physical					
computing project					
Microcontroller,	Database, data, information,	Selection, condition, true, false, count	Website, web page, browser, media.	Micro:bit, MakeCode, input, process,	Video, audio, camera, talking
components, connection,	record, field, sort, order,	controlled loop, outcomes, conditional			head, panning, close up Video
infinite loop , output		statement, algorithm, program, debug,	logo, layout, header, media,	condition, if then else, variable, random,	camera, microphone, lens, ,
component, motor,	value, search, criteria, graph,	question, answer, algorithm, program,	purpose, Copyright, fair use, home	Input, selection, condition, variable,	mid range, long shot, moving
	chart, axis, compare, filter,	debug, Task, design, algorithm, input,	page, preview, evaluate, device,	sensing, accelerometer, value, Compass,	subject, side by side, high
loop, Crumble controller,		1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Google Sites, breadcrumb trail,	direction, variable, navigation, design,	angle, low angle, normal angle
components, switch, motor,	presentation	Implement, , test, run, Design		task, algorithm, step counter Plan, create,	
LED, Sparkle, crocodile clips,		implement, , test, run, besign	Hyperlink, evaluate, implication,	code, test, debug	storyboard Storyboard, filming,
connect, battery box,			external link, embed	code, test, debug	review, Import, split, trim, clip,
program, condition, Input,			externar iirk, erribed		edit, reshoot, Delete, trim,
output, selection, condition,					reorder, export, evaluate,
action , repetition , debug			Nettenbul Cofetufer	Nottonbula C Cafatu fa ana	share
			Natterhub E-Safety focus	Natterhub E-Safety focus	Natterhub E-Safety focus
			Year 6	Year 6	Year 6
			Feel it – Lesson 1	Mind it – Lesson 1	Feel it – Lesson 2
			To understand how to react to	To understand how to create a positive	To know how to gather
			concerns online and what help is	online reputation.	evidence of online bullying and
			available if we have a concern.	- Topatation	what to do with the evidence.
			aranazio il vie liuve a concelli.	   Secure it – Lesson 1	The country of the condender.
				pecare it lesson i	





Chat it – Lesson 1	To understand how to use, manage and Balance it – Lesson 1
To understand the	importance of remember passwords. I can identify and resist online
respectful commur	nication. temptations and pressures.
	Learn it – Lesson 3
Question it – Lesso	on 1 To understand the positive differences Chat it – Lesson 2
To explore how sea	arch engines work technology makes throughout the world. To recognise the problems that
and how results an	e selected and can come with sharing
ranked.	Secure it – Lesson 3 information online.
	To describe and identify certain types of
Think it – Lesson 2	cybercrime. Question it – Lesson 3
To understand wha	at positive and To learn how to be a discerning
negative online int	reractions look like consumer of digital content.
and how we can re	spond to them.