

Computing	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle A	COMPUTING SYSTEMS AND	DATA AND INFORMATION	CREATING MEDIA	CREATING MEDIA	PROGRAMMING A	PROGRAMMING B
2022/2023	NETWORKS		Audio editing	Photo editing	Repetition in shapes	Repetition in games
2022/2023		Data logging				
	The internet		To identify that		To identify that	To develop the use of
	To describe hour	To explain that data	sound can be digitally	To explain that digital	accuracy in	count-controlled
	To describe how	gathered over time can be used to	recorded	images can be	programming is	loops in a different
	networks physically connect to other	answer questions	To use a digital device to record	changed To change the	important To create a program	programming environment
	networks	To use a digital	sound	composition of an	in a text-based	To explain that in
	To recognise how	device to collect data	To explain that a	image	language	programming there
	networked devices	automatically	digital recording is	To describe how	To explain what	are infinite loops and
	make up the internet	To explain that a data	stored as a file	images can be	'repeat' means	count controlled
	To outline how	logger collects 'data	To explain that audio	changed for different	To modify a count-	loops
	websites can be	points' from sensors	can be changed	uses	controlled loop to	To develop a design
	shared via the World	over time	through editing	To make good	produce a given	which includes two
	Wide Web	To use data collected	To show that	choices when	outcome	or more loops which
	To describe how	over a long duration	different types of	selecting different	To decompose a	run at the same time
	content can be added	to find information	audio can be	tools	program into parts	To modify an infinite
	and accessed on the	To identify the data	combined and played	To recognise that not	To create a program	loop in a given
	World Wide Web	needed to answer	together	all images are real	that uses count-	program
	To recognise how the	questions	To evaluate editing	To evaluate how	controlled loops to	To design a project
	content of the WWW	To use collected data	choices made	changes can improve	produce a given	that includes
	is created by people To evaluate the	to answer questions	Online safety	an image	outcome	repetition To create a project
	consequences of		Children use	Online safety		that includes
	unreliable content		technology safely,	Children use		repetition
			respectfully and	technology safely,		repetition
			responsibly. They	respectfully and		
			recognise	responsibly. They		
			acceptable/unaccept	recognise		
			able behaviour and	acceptable/unaccept		
			identify a range of	able behaviour and		



			ways to report concerns about content and contact. a reflect on their own digital footprint and behaviour online; b identify what is appropriate and inappropriate behaviour on the internet, recognising the term cyberbullying; c agree and follow sensible online safety rules, e.g. taking pictures, sharing information, storing passwords; d seek help from an adult when they see something that is unexpected or worrying;	identify a range of ways to report concerns about content and contact.  e demonstrate understanding of age appropriate websites and adverts; f use key vocabulary to demonstrate knowledge and understanding in this strand: safe, meet, accept, reliable, tell, online, trusted, adult, information, safety, personal, internet, world wide web, communicate, message, social media, email, password		
Cycle B 2023/2024	COMPUTING SYSTEMS AND NETWORKS	CREATING MEDIA  Video editing	CREATING MEDIA  Vector drawing	DATA AND INFORMATION	PROGRAMMING A Selection in physical	PROGRAMMING B Selection in quizzes
	THE TWO KINS	video cuiting	vector drawing	Flat-file databases	computing	Selection in quizzes
	Sharing information	To recognise video as	To identify that			To explain how
		moving pictures,	drawing tools can be	To use a form to	To control a simple	selection is used in
	To explain that	which can include	used to produce	record information	circuit connected to a	computer programs
	computers can be	audio	different outcomes	To compare paper	computer	To relate that a
	connected together	To identify digital	To create a vector	and computer-based	To write a program	conditional
	to form systems	devices that can	drawing by	databases	that includes count-	statement connects a
		record video	combining shapes		controlled loops	



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To recognise the role	To capture video	To use tools to	To outline how	To explain that a loop	condition to an
of computer systems	using a digital device	achieve a desired	grouping and then	can stop when a	outcome
in our lives	To recognise the	effect	sorting data allows us	condition is met, eg	To explain how
To recognise how	features of an	To recognise that	to answer questions	number of times	selection directs the
information is	effective video	vector drawings	To explain that tools	To conclude that a	flow of a program
transferred over the	To identify that video	consist of layers	can be used to select	loop can be used to	To design a program
internet	can be improved	To group objects to	specific data	repeatedly check	which uses selection
To explain how	through reshooting	make them easier to	To explain that	whether a condition	To create a program
sharing information	and editing	work with	computer programs	has been met	which uses selection
online lets people in	To consider the	To evaluate my	can be used to	To design a physical	To evaluate my
different places work	impact of the choices	vector drawing	compare data visually	project that includes	program
together	made when making		To apply my	selection	
To contribute to a	and sharing a video	Online safety	knowledge of a	To create a	
shared project online			database to ask and	controllable system	
To evaluate different	Online safety	Children understand	answer real-world	that includes	
ways of working		computer networks,	questions	selection	
together online	Children understand	including the			
	computer networks,	internet; how they			
	including the	can provide multiple			
	internet; how they	services, such as the			
	can provide multiple	world wide web, and			
	services, such as the	the opportunities			
	world wide web, and	they offer for			
	the opportunities	communication and			
	they offer for	collaboration. They			
	communication and	use search			
	collaboration. They	technologies			
	use search	effectively,			
	technologies	appreciate how			
	effectively,	results are selected			
	appreciate how	and ranked, and are			
	results are selected	discerning in			
	and ranked, and are	evaluating digital			
	discerning in	content.			



		evaluating digital	e tell you about			
		content.	copyright and			
			acknowledge the			
		a search for	sources of			
		information using	information; f use			
		appropriate websites	key vocabulary to			
		and advanced search	demonstrate			
		functions within	knowledge and			
		Google; b use	understanding in this			
		strategies to check	strand: world wide			
		the reliability of	web, search, search			
		information (cross-	engine, advanced			
		check with another	search, results,			
		source such as	Google, browser,			
		books); c talk about	terms of use, bias,			
		the way search	authority, citation,			
		results are selected	plagiarism, source,			
		and ranked; d check	website, secure,			
		the reliability of a	https, site, domain,			
		website, including	website, browser,			
		the photos on site;	address bar.			
Cycle C	COMPUTING	CREATING MEDIA	CREATING MEDIA	DATA AND	PROGRAMMING A	PROGRAMMING B
2024/2025	SYSTEMS AND			INFORMATION		
2024/2025	NETWORKS	Web page creation	3D modelling		Variables in games	Sensing
			Online safety	Spreadsheets	To define a 'variable'	
	Communication				as something that is	To create a program
	Online safety	To review an existing	To use a computer to	To identify questions	changeable	to run on a
	To identify how to	website and consider	create and	which can be	To explain why a	controllable device
	use a search engine	its structure	manipulate three-	answered using data	variable is used in a	To explain that
	To describe how	To plan the features	dimensional (3D)	To explain that	program	selection can control
	search engines select	of a web page	digital objects	objects can be	To choose how to	the flow of a program
	results	To consider the	To compare working	described using data	improve a game by	To update a variable
	To describe how	ownership and use of	digitally with 2D and	To explain that	using variables	with a user input
	search engines select	images (copyright)	3D graphics	formula can be used		To use an conditional
	results					statement to



	To explain how	To recognise the	To construct a digital	to produce calculated	To design a project	compare a variable to
	earch results are	need to preview	3D model of a	data	that builds on a given	a value
	anked	pages	physical object	To apply formulas to	example	To design a project
	To recognise why the	To outline the need	To identify that	data, including	To use my design to	that uses inputs and
	order of results is	for a navigation path	physical objects can	duplicating	create a project	outputs on a
	mportant, and to	To recognise the	be broken down into	To create a	To evaluate my	controllable device
	vhom	implications of linking	a collection of 3D	spreadsheet to plan	project	To develop a
	To recognise how we	to content owned by	shapes	an event		program to use
	communicate using	other people	To design a digital	To choose suitable		inputs and outputs
	echnology		model by combining	ways to present data		on a controllable
T	To evaluate different	Online safety	3D objects			device
m	methods of online	Online safety	To develop and			
C	communication	Children use	improve a digital 3D			
		technology safely,	model			
	Re-cap Online safety	respectfully and				
	Children use	responsibly. They				
	echnology safely,	recognise				
	espectfully and	acceptable/unaccept				
	esponsibly. They	able behaviour and				
	ecognise	identify a range of				
	acceptable/unaccept	ways to report				
	able behaviour and	concerns about				
	dentify a range of	content and contact.				
l w	ways to report					
C	concerns about	e demonstrate				
C	content and contact.	understanding of age				
а	reflect on their own	appropriate websites				
	digital footprint and	and adverts; f use key				
b	pehaviour online; b	vocabulary to				
ic	dentify what is	demonstrate				
	appropriate and	knowledge and				
	nappropriate	understanding in this				
b	ehaviour on the	strand: safe, meet,				
ir	nternet, recognising	accept, reliable, tell,				
th	he term	online, trusted, adult,				



White	
Tigers	

aula aula villa din au	and information arfatu.		
cyberbullying; c a			
and follow sensib	le personal, internet,		
online safety rule	s, world wide web,		
e.g. taking picture	es, communicate,		
sharing informati	on, message, social		
storing password	s; d media, email,		
seek help from ar	password		
adult when they s	ee		
something that is			
unexpected or			
worrying;			