# Units for curriculum planning

## Key Stage 1

# Cycle A



Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Computing systems and networks			g Media	Data and information	
		(Art	links)	(Maths – sta	atistics links)
Technology around	Information	Digital Painting	Digital photography	Grouping data	Pictograms
us	technology around	1.2	2.2	1.4	2.4
1.1	us				
Recognising technology in school and using it responsibly	2.1 Identifying IT and how its responsible use improves our world in school and beyond	Choosing appropriate tools in a program to create art, and making comparisons with working non- digitally	Digital photography Capturing and changing digital photographs for different purposes.	Exploring object labels, then using them to sort and group objects by properties	Collecting data in tally charts and using attributes to organise and present data on a computer

### E- Safety

<sup>\*</sup>Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies

<sup>\*</sup>Use technology safely and keep personal information private

Cycle B

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	ing Media nk, Music Link)	Programi	ming A	Programming B	
Digital Writing 1.5	Making Music 2.5	Moving a robot 1.3	Robot algorithms 2.3	Programming animations 1.6	Programming quizzes 2.6
Using a computer to create and format text, before comparing to writing non-digitally	Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.	Writing short algorithms and programs for floor robots, and predicting program outcomes.	Creating and debugging programs, and using logical reasoning to make predictions.	Designing and programming the movement of a character on screen to tell stories.	Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz

# Lower Key Stage 2

## Cycle A

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

<sup>\*</sup>Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies

<sup>\*</sup>Use technology safely and keep personal information private

Computing system	Computing systems and networks		g Media	Data and ii	nformation
Connecting	The internet	Stop-frame	Audio editing	Branching	Data logging
computers	4.1	animation	4.2	databases	4.4
3.1		3.2		3.4	
	Recognising the		Capturing and		Recognising how
Identifying that	internet as a	Capturing and	editing audio to	<b>Building and</b>	and why data is
digital devices	network of	editing digital still	produce a	using branching	collected over
have inputs,	networks	images to	podcast, ensuring	databases to	time, before
processes, and	including the	produce a stop-	that copyright is	group objects	using data
outputs, and how	WWW, and why	frame animation	considered.	using yes/no	loggers to carry
devices can be	we should	that tells a story		questions.	out an
connected to	evaluate online				investigation.
make networks.	content.				

### Lower Key Stage 2

#### Cycle B

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Creating Media		Programmii	ng A1 and B1	Programmir	ng A2 and B 2

<sup>\*</sup>Use technology safely and respectfully, keeping personal information private

<sup>\*</sup>Use technology safely and recognise acceptable and unacceptable behaviour

<sup>\*</sup>Use technology responsibly and understand that communication online may be seen by others \*Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies

Desktop	Photo editing	Sequencing	Events and actions	Repetition in	Repetition in
publishing	3.6	sounds	in programs	shapes	games
3.5		3.3	3.6	4.3	4.6
	Manipulating digital				
Creating	images, and	Creating	Writing	Using a text-	Using a block-
documents by	reflecting on the	sequences in a	algorithms and	based	based
modifying text,	impact of changes	block-based	programs that use	programming	programming
images, and page	and whether the	programming	a range of events	language to	language to
layouts for a	required purpose is	language to	to trigger	explore count-	explore count-
specified purpose.	fulfilled	make music.	sequences of	controlled	controlled and
			actions	loops when	infinite loops
	PSHE link- self-image			drawing	when creating a
				shapes	game

#### Upper Key Stage 2

#### Cycle A

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Computing systems and networks		Creating	g Media	Data and ir	nformation

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<sup>\*</sup>Use technology safely and recognise acceptable and unacceptable behaviour

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Sharing	Internet	Video editing	Webpage	Flat-file	Introduction to
information	communication	5.2	creation	databases	spreadsheets
5.1	6.2		6.2	5.4	6.4
		Planning,			Answering
Identifying and	Recognising how	capturing, and	Designing and	Using a database	questions by
exploring how	the WWW can be	editing video to	creating	to order data and	using
information is	used to	produce a short	webpages, giving	create charts to	spreadsheets to
shared between	communicate	film	consideration to	answer	organise and
digital systems.	and be searched		copyright,	questions.	calculate data.
	to find		aesthetics, and		
	information.		navigation.		

## Upper Key Stage 2

## Cycle B

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Creating Media  Art link, DT link		Programming A1 and B1		Programming A2 and B2	

<sup>\*</sup>Understand the need to only select age-appropriate content

<sup>\*</sup>Use technology respectfully and responsibly

<sup>\*</sup>Identify a range of ways to report concerns about content and contact in and out of school

Vector drawing	3D modelling	Selection in	Selection in	Variables in	Sensing
5.5	6.5	physical	quizzes	games	6.6
		computing	5.6	6.3	
Creating images	Planning,	5.3			Designing and
in a drawing	developing, and		Exploring	Exploring	coding a project
program by using	evaluating 3D	Exploring	selection in	variables when	that captures
layers and groups	computer models	conditions and	programming to	designing and	inputs from a
of objects	of physical	selection using a	design and code	coding a game	physical device
	objects.	programmable	an interactive		
		microcontroller	quiz.		

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<sup>\*</sup>Use technology respectfully and responsibly

<sup>\*</sup>Identify a range of ways to report concerns about content and contact in and out of school