

## Computing Curriculum

2023 - 2024



## Computing is...

comprised of three strands: **Computer Science**, **Information Technology**, and **Digital Literacy**. Together these strands come together to teach children how computers and computer systems work, how to design, build and analyse programs, and how to find and manage digital information securely. Each component is **essential** in preparing children to thrive in an increasingly digital world.



"Technology can become the 'wings' that will allow the educational world to fly farther and faster than ever before; if we will allow it."



**Jenny Arledge** 



<u>Computer Science-</u> The study of computers as machines and how they operate including programming, algorithms, variables, sequence, selection and repetition.



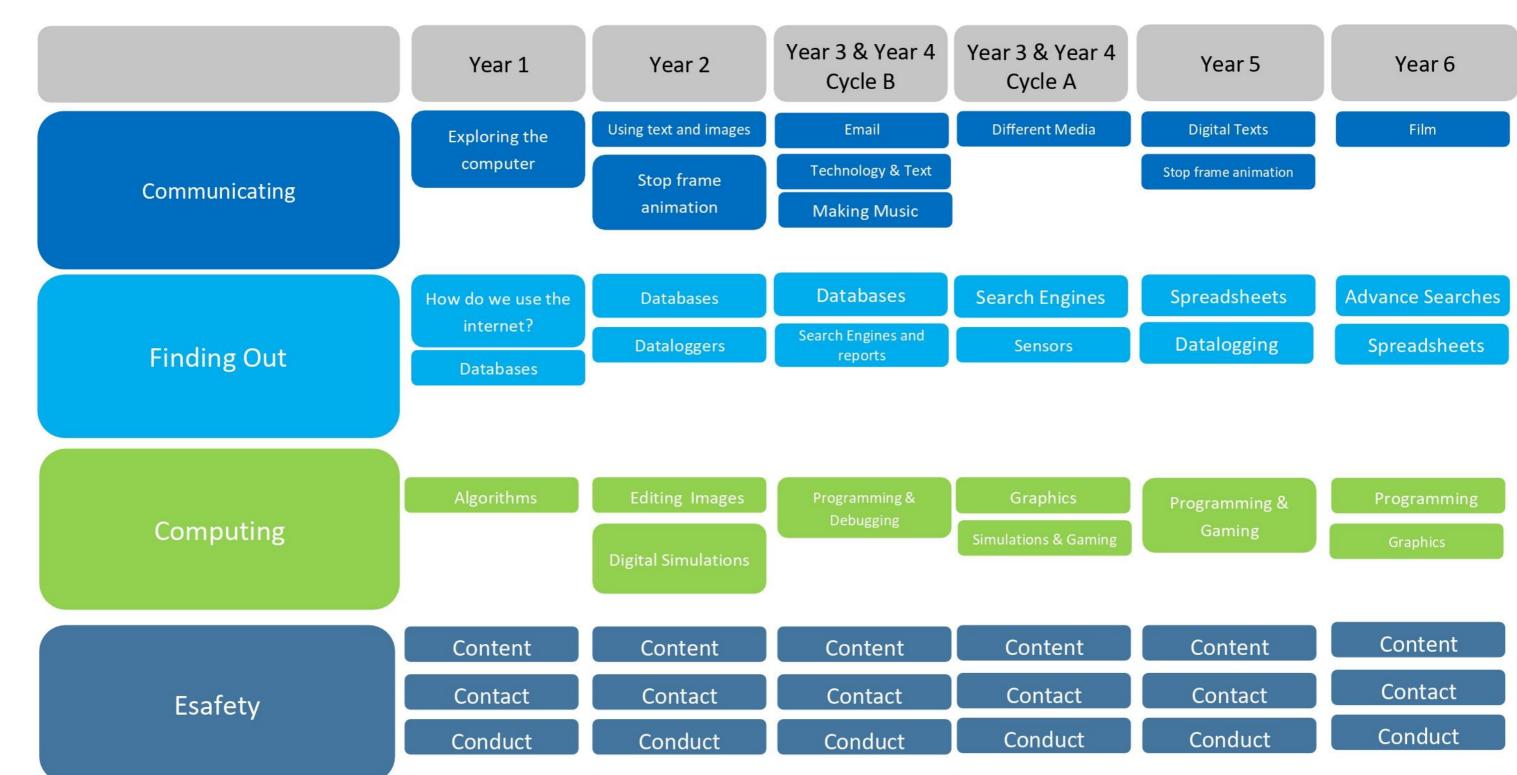
<u>Digital Literacy-</u> The skills you need to live, learn, and work in a society where communication and access to information is increasingly through digital technologies like internet platforms, social media, and mobile devices. This includes being knowledgeable and responsible users of technology, using the internet and other platforms safely and respectfully.



<u>Information Technology-</u> The ability to create, retrieve, combine and manipulate digital content. The understanding of computer networks, the world-wide web and the internet and how they operate.



## Computing Curriculum Map





## **Computing Progression**



	Year I	Year 2	Year 3 & Year 4 Cycle B	Year 3 & Year 4 Cycle A	Year 5	Year 6
	Communicating	Communicating	Communicating	Communicating	Communicating	Communicating
	Exploring the computer	Using text and images	Email	Different Media	Digital Texts	Film
	Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge
	-Text can be entered and corrected	- ICT can be used to change the	-Electronic communication can take a	- Presentation software can be used to	- Word processing software has tools to	- Filming techniques and video editing can
	-Events can be recorded using text, sound,	appearance of text to suit a purpose.	variety of forms e.g. email / blogging /	create a multimodal text for a specific	allow individual and collaborative editing.	be combined to create a video for a
	still and moving images.	-Text, images and sound may be changed	instant messaging / Skype / FaceTime	purpose.	- A non-linear text allows choices to be	specific purpose.
	-Images, text and sounds can be combined	to suit a purpose.	- E-mail can be used to send messages	-Digital media may be enhanced to	made.	-Editing, camera angles, lighting
	using digital devices.	-Text, images and sound may be sourced	between individuals and groups.	achieve a desired outcome	-The internet enables multimodal text to	techniques can be used to achieve a
	- Use a keyboard to enter and edit text.	from a variety of places including the	- E-mail addresses have a particular	-Digital media can be shared via a	be shared with a wider audience.	desired effect in a digital text.
	- Use a word bank to enter text.	internet.	format	Learning Platform and the internet to	-Technology allows individual and	-ICT enables you to create music with a
	- Take a photograph and record a video	Required skills:	Required skills:	reach a wider audience	collaborative editing.	range of input devices e.g. electronic
	which includes sound.	- Combine images texts and sounds to create	- Open, read and send a reply to an email	-The internet can be used to share	Required skills:	keyboards.
	-Explore a digital text e.g. a talking book.	a simple presentation.	address,	information via email, online comments.	- Create a multimodal text including making	-Software can be used to create and edit
	-Use their own username and password	-Use digital effects to change the appearance of text, sound and image to suit a purpose e.g.	- Write and send a new email to several	- Videos can be enhanced by adding titles,	choices	complex digital texts, with elements from
	to get on to the school's network.	font, alignment and formatting.	people - Discuss ways in which ICT is used to	transitions and effects, and by adding	-Evaluate the design and layout of digital texts and use their findings to support the planning	a variety of sources.
		-Explore digital content on the internet.	communicate	soundtracks and narrations.	and design in their work	Required skills:
		-Know how to save, copy and paste images		Required skills:	- Use video editing tools and techniques to	-Use text, sound, image, video, camera angles
		from the internet with support from an adult.	Technology and Text	-Find media from different sources e.g. the	create a desired effect	and framing editing tools and techniques to
			Key Knowledge	internet digital microscope, IWB screen	-Select the most appropriate way to	create a desired effectUse a range of devices to create music.
		Stop Frame Animation	-There are a range of modes of	recorderCapture video using a range of devices.	communicate ideas.	- Create a multimodal text including a range
on		Key Knowledge	communication including text, audio,	-Capture still images from video		of elements e.g. sounds and videos.
Communicating Progression		- Images taken with a digital camera can	video	independently.	Stop Frame Animation	-Critically evaluate web content.
á		be transferred to the computer.	-Digital texts may be nonlinear	-Manage digital resources on a range of	Key Knowledge	-Evaluate forms of digital media and the
<u> </u>		- Video is composed of a series of still	-Technology can be used to redraft more	devices.	- 'Onion skinning' allows the last frame to	impact its form can have.
2		images	easily than traditional methods.  Required skills:	-Use simple photo and video editing tools to	be seen when creating the next frame.	-Produce content for a web page.
P0		- Still images can be combined to make a	- Change the layout of a text to suit a purpose	change the appearance of images.	- An animation story needs decomposing	- Work collaboratively on an online
ij		stop frame animation.	e.g. Text box, tables, images, 'Word Art',	-Text sound and video can be edited and recombined to create sequences	into smaller parts.	documentAs a class make use of video technologies to
g		Required skills:	bullet points, paragraphs.	- Add soundtracks and narrations to video	Required skills:	work collaboratively.
Ē		-Take a photograph. Video record a	- Cut, copy and paste text	sequences.	-Create a stop frame animation which includes a soundtrack.	,
l u		sound using a digital device.	-Create a digital text which includes making	-Make use of titles, transitions, animations and	- Make small changes to my object to make	
ī		-Transfer digital resources between	choices.	effects to enhance their digital texts.	my animation smoother	
ō		devices.	- Capture an image or video (including sound) using an electronic recording device.	-Share digital outcomes with a wider audience	- Keep the camera still and make small	
O		-Still images can be combined to make a	- Import videos and sound in to editing clips	on the internet through a range of methods	movements between shots	
		stop frame animation.	to make longer sequences	e.g. learning platform, blogs, podcast.		
		-Sequence, delete and crop images with		- Use more advanced e-mail tools e.g. attachments and address book		
		adult help	Making Music	attachments and address book		
		-Compose a video from a series of still	Key Knowledge			
		images.	-Digital devices may be used to create musical. sounds, and these might sound			
		-Create a simple stop frame animation.	like real instruments.			
			- Sounds may be recorded on a			
			computer and that software enables you			
			to combine and edit sounds.			
			- ICT can be used to arrange, repeat and			
			edit musical elements			
			Required skills:			
			- Record a sound on a computer.			
			- Create music using music software			
			-Interact with icons in software and apps to			
			create musical sounds and phrases.			
			-Arrange a musical sequence where musical			
			phrases are represented by icons.			
			-Create and edit music and soundtracks using			
		<u> </u>	music apps or software.	<u> </u>		

Year I	Year 2	Year 3 & Year 4 Cycle B	Year 3 & Year 4 Cycle A	Year 5	Year 6
Finding Out	Finding Out	Finding Out	Finding Out	Finding Out	Finding Out
How do we use the internet?	Databases	Databases	Search Engines	Spreadsheets	Advance Searches
Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge	Key Knowledge
-Both traditional and digital methods can	- ICT can be used to create graphs from	-Databases exist in a variety of forms and	-Web browsers allow you to keep	-Tables and graphs can show more than	-Searches can be refined through the us
be used to find useful information.	data	provide a means of storing information	bookmarks and keep a history of sites	one variable allowing one to look at	of advanced search operators.
-Web pages can be viewed using a web	Required skills:	that can be searched.	visited.	relationships and trends more clearly.	- The accuracy of information on the
browser that lets us look at web pages	-Search a database.	-A database is created by collecting and	-Although search engines can locate	-Information contained within databases	internet should always be checked.
and navigate around them sites can be	-Use a database to produce bar charts.	inputting data into a prepared structure.	information on the internet, results may	may contain errors and that this can	Required skills:
bookmarks as favourites.	-Complete a table e.g. a simple spreadsheet	-When answering a specific question	need to be skimmed to save time and to	affect results.	- Refine search techniques making use of
-Know that companies use the internet to	and then create a graph to answer a question.	some graphs are more appropriate than	assess their usefulness.	-A spreadsheet can be used to organise,	advanced search operators such as inverted
encourage people to buy things.		others.	-The copyright of images and sounds	sort and analyse data and produce graphs	commas, +,Download files from websites, saving and
Required skills:	Dataloggors	-Understand that information needs to	should be considered when downloading	and reports.	opening them.
-Discuss how people use the internet to	Dataloggers Key Knowledge	be collected and entered accurately.	them from the internet.	-Data held in a spreadsheet can be sorted	-Use web-based tools to ask a question, fin
help them with their work e.g. selling,	-Everyday devices like automatic doors,	Required skills:	-Understand how technology is used	and filtered using software tools	out information or submit information or
research, communicating, sharing	car park barriers, streetlights etc can be	- Explore a range of paper-based databases	extensively in peoples working and	Required skills:	opinion.
information.	controlled by simple sensors.	and compare to ICT versions	personal lives e.g. selling, research,	-Create a database using more complex setup	- Explore the plausibility of websites,
- Select programmes and apps and	-Our senses allow us to find out what is	-Open a prepared database, and identify the main features: records, types of fields etc.	communicating, sharing, and managing	tools (e.g. keywords) to answer specific	identifying some ways to check author,
navigate through screens and menus	happening in the world and some	-Use the search tool on a simple database to	information.	questionsRecognise when data is implausible by	accuracy etc
-Use a search engine.	machines can do the same.	find out the answers to questions by ordering	-Understand the impact of ICT on	checking data for accuracy against predicted	-Find specific information by searching an online database e.g. Census data.
-Use simple navigation tools including	-A computer can be used to view a visual	records by a key field.	society.	or expected outcomes.	-Create a presentation for a specific audien
hyperlinks, menus, index, and forward and	representation of external conditions like	-Create a simple database with different types	-Identify ways in which companies use the	-Create tables and graphs with more than one	by gathering information from a selection of
back buttons e.tc to explore pre-selected	sound levels and temperature.	of fields and records.	internet for marketing.	variable.	websites.
digital information sources purposefully.	Required skills:	-Use a variety of graphs to display the	Required skills:	-Use the features of a spreadsheet to answer	-Use a moderated website, video conference
-Select programs and apps, navigate	-Begin to identify and talk about how everyday	information, including pie charts, and discuss which type of graph works best for different	-Access a website by typing in the URL, selecting from favourites or from the history.	questions by producing graphs using sort and	forum, or learning platform to ask a questi
screens and menus.	devices with sensors work.	kinds of data.	-Skim and scan search engine results and look	filter featuresChoose when to search when to sort and	submit information or offer an opinion.
D / I	-View data and on-screen measurements e.g.	Killus Ol data.	at their web address for clues as to their	when to use a graph to answer questions.	
Databases	sound levels, temperature, precipitation	Search engines and reports	usefulness	-Analyse information by transferring it into an	Spreadsheets
Key Knowledge	collected in school and beyond through sensors and websites and apps.	Key Knowledge	- Answer specific questions on a topic by	appropriate data handling package e.g.	Key Knowledge
-Data represented graphically can be easier to understand than tables or text.	-Compare photographs they have taken which	- Web pages have a unique address or	creating a report using programmes such as	Spreadsheets	-Spreadsheets can be used to create a
-ICT can be used to create graphs from	show change e.g. clouds on different days.	URL (unique resource locators)	Word or presentations using programmes		simple model, perform calculations and
		- Although keywords can be used to	such as PowerPoint or Prezi	Data Logging	are useful when numbers change to
dataICT can be used to create a database		search for information, results may not	- Search using keywords either within a digital content library or in a child friendly reference	Key Knowledge	explore outcomes and what if scenario
Required skills:		always be useful	site	- There are advantages in using	e.g. currency converter  Required skills:
-Use ICT to create pictograms and use		- Folders can be used to organise	- Locate and download images and sounds	computers to monitor and log data such	-Enter labels, numbers & formulae into a
them to answer simple questions.		Favourites and links.	from the internet	as accuracy and reliability over long	spreadsheet.
-Input data into a simple database		Required skills:		periods of time.	- Use a spreadsheet to convert one value to
program and use it to answer simple		-Use search engines to find images for a	Sensors	Required skills:	another based on a rule
questions.		specific topic.	Key Knowledge	-Use software to analyse and interpret data collected locally and remotely to investigate	-Design & create a simple spreadsheet mod
1		- Locate a web page by typing a simple URL	-Conditions such as light intensity,	specific questions or theories.	using information from experiments and re
		into the address bar of a web browser - Bookmark a website as a favourite.	temperature and sound level can be	-Build up a system that controls events in	life situations e.g. predict shadow length at
		- Find images and text relating to a specific	measured by devices attached to a	response to changing conditions.	different times of the day from initial measurements, convert one value to anoth
		topic by using keywords to search an online	computer.	LINK to science or maths	-Change data in a spreadsheet to answer,
		library e.g. Living Library	-Different conditions will be measured by	(This does not need to be done using	'what if?' questions and check predictions
		- Create a new folder within the favourites	different sensors.	data loggers, they can use research they	,
		folder to save a link to a useful website.	-Understand how sensors in the	have collected by class sample or the	
			environment control devices.	internet. The focus will be on the analysis	
			-There are advantages in using computers	of the data.)	
			to monitor and log data such as accuracy		
			and reliability over long periods of time.		
			Required skills:		
			-Take readings as part of a science or		
			humanities activity using a simple sensor(s) attached to a computer or data logger.		
			-Use appropriate sensors attached to a		
			computer or data logging device to take		
			readings to investigate a specific question or		
			theory.		

rear i	rear 2	rear 3 & rear 4 Cycle B	rear 3 & rear 4 Cycle A	rear 5	rear o
Computing Algorithms -Control a programmable toy by giving it an instruction e.g. a Bee-BotPredict the behaviour of a simple set of instructions -Write an algorithm refining the instructions to achieve a desired outcome.	Computing Editing Images Key Knowledge -Software and apps can be used to create and edit imagesDigital devices aid the drawing of more complex shapes and designs Digital photos can be altered using simple	Computing Programming and debugging Key Knowledge -Devices are controlled by a repeated set of instructionsA procedure is a set of instructions which may be repeated in a programDigital simulations allow users to solve	Computing Graphics Key Knowledge -Graphics software can be used to select, copy, cut and paste areas of a picture and to automate some tasks. Required skills: -Create and manipulate graphics within a	Computing Programming and Gaming Key Knowledge -Technology allows people to play games and access simulations on a range of devices at the same timeDigital devices need to be programmed to make them work.	Computing Programming Key Knowledge -Digital games and simulations are written using a programming language Explain how loops and nested loops work - Identify the need for random numbers
Key Knowledge  - Many everyday devices and toys respond to signals and instructions.  -An algorithm is a sequence of instructions which can control a device.  -Algorithms are implemented as programs on digital devices.  -A digital device may be used to simulate a wide range of environments and situations.	painting tools.  Required skills: -Use an art package on a digital device to create an imageSelect purposefully and use a variety of tools in a painting package e.g. the straight line, geometric shapes and flood fill toolsOpen a digital image from a file and add effects painting effects using brushes and stamps.  Digital Simulations Key Knowledge -Digital simulation allows users to explore options and make choices. Required skills: -Create and debug a simple program to control an on-screen objectExplore the effect of changing the variables in simulations.	problems and test ideasVariables can be changed within a digital simulation to achieve a specific outcome.  Required skills: -Create a program which includes sequence, selection and repetitionCreate a program which responds to various forms of inputs and outputsWrite a program to achieve a specific goalUse logical reasoning to detect and correct errors in algorithms and programs	graphics package, move, rotate and re-size graphic elements.  -Use tools to explore the effects of cutting, copying and pasting areas of an image.  - Create and edit vector graphics e.g. Using the drawing tool in Word  - Use the selection/capture tools to explore the effects of cutting, copying and pasting areas of an image  Simulations and gaming Key Knowledge  - Variables can be changed within a computer simulation to achieve a specific outcome.  Required skills:  -Explore the effect of changing the variables in simulations and use them to make and test predictions, changing the variables in a simulation to achieve a given outcome.  -Record the outcome of choices in a simulation systematically to help achieve an outcome.	-Control systems have a number of distinct components that combine to work effectively e.g. inputs and outputsDevices can be controlled through direct instructions or from sensing equipmentControl programs can be written to respond to circumstances flexibly e.g. — if this then that.  Required skills: -Solve a problem by decomposing into smaller partsProduce a program to accomplish a specific goal which includes variables and a range of inputs and outputsUse logical reasoning to explain how a simple algorithm works.	Required skills: -Discuss how games have evolvedEvaluate games and design their own including rules Create loops and nested loops to make the code more efficient Choose commands for a purpose Write an effective algorithm.  Graphics Key Knowledge -Graphics software can be used to creat and edit an image for a specific purpose and edit an image for a specific purpose created within and image and that this allows complex images to be created at manipulated.  Required skills: -Select appropriate graphics tools to fulfil a design brief e.g. create an image for an adversal graphics tools to fulfil a design brief e.g. create an image for an adversal graphics tools to create a complex design with several graphics

Year 3 & Year 4 Cycle A

Year 5

Year 6

Year 3 & Year 4 Cycle B

Year 2

Year I

Year I	Year 2	Year 3 & Year 4 Cycle B	Year 3 & Year 4 Cycle A	Year 5	Year 6
Online Safety: Content	Online Safety: Content	Online Safety: Content	Online Safety: Content	Online Safety: Content	Online Safety: Content
-Know the SMART rules.	-Begin to evaluate web sites by giving	-Be aware of the school Acceptable use	-Understand the Internet contains fact,	-Use a range of sources to evaluate	-Check the validity of a website, e.g. look
-Know what to do if they view content	opinions about preferred sites.	Policy and the SMART online rules:	fiction and opinion and begin to	information found online, consider	for the author via the 'Contact us' or
they think is inappropriate or upsetting	-Know that anyone can create a web site	Safe/Meeting/Accepting/Reliable/Tell.	distinguish between them.	plausibility and develop strategies to	'About us' area of the website, or
(school policy) e.g. know how to minimise	and it is sometimes difficult to know if	-Know what to do if content is	-Know when an email should not be	make judgements on the sources used	through 'Who is' sites that list the
a screen if they	information is true.	inappropriate or upsetting (school policy)	opened, or messages ignored.	e.g. cross-referencing a number of	author's details.
Privacy & Security	Privacy & Security	e.g. know who to report to and talk to.	-Know that the aim of many sites is to	websites.	-Understand the need for privacy setting
- I can explain that passwords are used to	-I can explain how passwords can be used	-Be aware that taking text or images	sell something or gain personal	-Understand the impact of an individual	on any social networking sites (and that
protect information, accounts and devices.	to protect information, accounts and	from some sites may be stealing other	information.	sending or uploading inappropriate	those privacy settings may not be
- I can recognise more detailed examples	devices.	people's work.	Privacy & Security	content to a wider audience.	observed by online 'friends' who can
of information that is personal to	- I can explain and give examples of what	Privacy & Security	- I can describe strategies for keeping	-Understand wikis are multi-authored	use/share/download your
someone (e.g where someone lives and	is meant by 'private' and 'keeping things	- I can describe simple strategies for	personal information private, depending	and can be hard to verify (e.g. Wikipedia).	images/content).
goes to school, family names).	private'.	creating and keeping passwords private.	on context.	-Have an awareness of the need to check	-Know the importance of not uploading
-l can explain why it is important to	- I can describe and explain some rules	-I can give reasons why someone should	-I can explain that internet use is never	a resource has copyright or can be legally	other people's images or content withou
always ask a trusted adult before sharing	for keeping personal information private	only share information with people they	fully private and is monitored, e.g. adult	downloaded free of charge from the	their permission
any personal information online, belonging	(e.g. creating and protecting passwords).	choose to and can trust. I can explain	supervision.	internet and whether it can be re-used.	-Know that many commercial providers
to myself or others.	- I can explain how some people may	that if they are not sure or feel pressured	-I can describe how some online services	Privacy & Security	have sophisticated ways of trying to sell
Copyright & Ownership	have devices in their homes connected to	then they should tell a trusted adult.	may seek consent to store information	-I can explain what a strong password is	on the internet (e.g. hoax 'You have a
- I can explain why work I create using	the internet and give examples (e.g. lights,	-I can describe how connected devices	about me; I know how to respond	and demonstrate how to create one.	virus' message box to sell antivirus
technology belongs to me.	fridges, toys, televisions).	can collect and share anyone's	appropriately and who I can ask if I am	-I can explain how many free apps or	software).
technology belongs to meI can say why it belongs to me (e.g. 'I designed it' or 'I filmed it'').	Copyright & Ownership	information with others.	not sure.	services may read and share private	Privacy & Security
	- I can recognise that content on the	Copyright & Ownership	-I know what the digital age of consent is	information (e.g. friends, contacts, likes,	-l can describe effective ways people can
-l can save my work under a suitable title /	internet may belong to other people.	- I can explain why copying someone	and the impact this has on online services	images, videos, voice, messages,	manage passwords (e.g. storing them
name so that others know it belongs to	- I can describe why other people's work	else's work from the internet without	asking for consent.	geolocation) with others.	securely or saving them in the browser).
me (e.g. filename, name on content).	belongs to them.	permission isn't fair and can explain what	Copyright & Ownership	-l can explain what app permissions are	-l can explain what to do if a password is
-I understand that work created by others does not belong to me even if I save a		problems this might cause.	- When searching on the internet for	and can give some examples.	shared, lost or stolen.
			content to use, I can explain why I need	Copyright & Ownership	-l can describe how and why people
сору			to consider who owns it and whether I	- I can assess and justify when it is	should keep their software and apps up
			have the right to reuse it.	acceptable to use the work of others.	to date, e.g. auto updates.
			-l can give some simple examples of	-l can give examples of content that is	-l can describe simple ways to increase
			content which I must not use without	permitted to be reused and know how	privacy on apps and services that provide
			permission from the owner, e.g. videos,	this content can be found online.	privacy settings.
			music, images.		-l can describe ways in which some
					online content targets people to gain
					money or information illegally; I can
					describe strategies to help me identify
					such content (e.g. scams, phishing).
					-l know that online services have terms
					and conditions that govern their use.
					Copyright & Ownership - I can demonstrate the use of search
					tools to find and access online content
					which can be reused by others.
					- I can demonstrate how to make
					references to and acknowledge sources I
					have used from the internet.

Year I	Year 2	Year 3 & Year 4 Cycle B	Year 3 & Year 4 Cycle A	Year 5	Year 6
Online Safety: Contact	Online Safety: Contact	Online Safety: Contact	Online Safety: Contact	Online Safety: Contact	Online Safety: Contact
-Know to keep personal information	-Begin to evaluate web sites by giving	-Know to keep personal information and	-Know when an email should not be	-Demonstrate safe practice when	-Understand the need for privacy settings
private when communicating online	opinions about preferred sites.	passwords private when communicating	opened, or messages ignored.	selecting images or content for uploading	on any social networking sites (and that
Self-image & identity	-Know that anyone can create a web site	online (including email, blogging and	-Understand that online communication	1	those privacy settings may not be
-l can recognise, online or offline, that	and it is sometimes difficult to know if	instant messaging).	is not always confidential and that it can	to an online space.	observed by online 'friends' who can
anyone can say 'no' / 'please stop' / 'l'll	information is true.	-Know they can create an alias or avatar	be monitored.	-Understand some malicious adults use	use/share/download your
tell' / 'l'll ask' to somebody who makes	Online Safety: Contact	when online.	-Know that anyone can create a user	the internet to make contact and	images/content).
them feel sad, uncomfortable,	-Know that online communication is not	Self-image & identity	showing any age or gender and people	"groom" young children. Know how to	Self-image & identity
embarrassed or upset.	always confidential and that it can be	-I can explain what is meant by the term	you meet online may not be who they	report any suspicions (Think You Know	-I can identify and critically evaluate
-I can recognise that there may be people	monitored.	'identity'.	say they are (social networking, chat	REPORT ABUSE page).	online content relating to gender, race,
online who could make someone feel sad,	Self-image & identity	-I can explain how people can represent	rooms and instant messenger).	Self-image & identity	religion, disability, culture and other
embarrassed or upset.	-I can explain how other people may look	themselves in different ways online.	Self-image & identity	-l can explain how identity online can be	groups, and explain why it is important to
-If something happens that makes me feel	and act differently online and offline.	-I can explain ways in which someone	-l can explain how my online identity can	copied, modified or altered.	challenge and reject inappropriate
sad, worried, uncomfortable or frightened	- I can give examples of issues online that	might change their identity depending on	be different to my offline identity.	· ·	representations online.
I can give examples of when and how to	might make someone feel sad, worried,	what they are doing online (e.g. gaming;	-I can describe positive ways for	- I can demonstrate how to make	-I can describe issues online that could
speak to an adult I can trust and how they	uncomfortable or frightened; I can give	using an avatar; social media) and why.	someone to interact with others online	responsible choices about having an	make anyone feel sad, worried,
can help.	examples of how they might get help.	Online Relationships	and understand how this will positively	online identity, depending on context.	uncomfortable or frightened. I know and
Online Relationships	Online Relationships	-I can describe ways people who have	impact on how others perceive them.	Online Relationships	can give examples of how to get help,
-I can give examples of when I should ask	-l can give examples of how someone	similar likes and interests can get	- I can explain that others online can	-I can give examples of technology	both on and offline.
permission to do something online and	might use technology to communicate	together online.	pretend to be someone else, including my	specific forms of communication (e.g.	-I can explain the importance of asking
explain why this is important I can use the internet with adult support	with others they don't also know offline	-I can explain what it means to 'know	friends, and can suggest reasons why they	emojis, memes and GIFs).	until I get the help needed.
	and explain why this might be risky. (e.g.	someone' online and why this might be	might do this.	-l can explain that there are some people	Online Relationships
to communicate with people I know (e.g.	email, online gaming, a pen-pal in another	different from knowing someone offline.	Online Relationships		-l can explain how sharing something
video call apps or services).  - I can explain why it is important to be considerate and kind to people online and to respect their choices.  -I can explain why things one person finds	school / country).	-I can explain what is meant by 'trusting	-I can describe strategies for safe and fun	I communicate with online who may want	online may have an impact either
- I can explain why it is important to be	-I can explain who I should ask before	someone online', why this is different	experiences in a range of online social	to do me or my friends harm.	positively or negatively.
considerate and kind to people online and	sharing things about myself or others	from 'liking someone online', and why it	environments (e.g. livestreaming, gaming	-I can recognise that this is not my / our	-I can describe how to be kind and show
to respect their choices.	online.	is important to be careful about who to	platforms).	fault. I can describe some of the ways	respect for others online including the
, , , ,	-I can describe different ways to ask for,	trust online including what information	- I can give examples of how to be	people may be involved in online	importance of respecting boundaries
funny or sad online may not always be	give, or deny my permission online and	and content they are trusted with.	respectful to others online and describe	communities and describe how they	regarding what is shared about them
seen in the same way by others.  Online Reputation -I can recognise that information can stay	can identify who can help me if I am not	-I can explain why someone may change	how to recognise healthy and unhealthy	might collaborate constructively with	online and how to support them if others
Online Reputation	sure.	their mind about trusting anyone with	online behaviours.	others and make positive contributions.	do not.
-I can recognise that information can stay	-I can explain why I have a right to say	something if they feel nervous,	- I can explain how content shared online	·	-l can describe how things shared
online and could be copied.  - I can describe what information I should not put online without asking a trusted	'no' or 'I will have to ask someone'. I can	uncomfortable or worried.	may feel unimportant to one person but	(e.g. gaming communities or social media	privately online can have unintended
- I can describe what information I should	explain who can help me if I feel under	-l can explain how someone's feelings can	may be important to other people's	groups).	consequences for others. e.g. screen-
	pressure to agree to something I am	be hurt by what is said or written online.	thoughts feelings and beliefs.	-l can explain how someone can get help	grabs.
adult first.	unsure about or don't want to do.	-l can explain the importance of giving	Online Reputation	if they are having problems and identify	-I can explain that taking or sharing
	-l can identify who can help me if	and gaining permission before sharing	-I can describe how to find out	when to tell a trusted adult.	inappropriate images of someone (e.g.
	something happens online without my	things online; how the principles of	information about others by searching	-l can demonstrate how to support	embarrassing images), even if they say it
	consent.	sharing online is the same as sharing	online.	others (including those who are having	is okay, may have an impact for the sharer and others; and who can help if
	-l can explain how it may make others	offline e.g. sharing images and videos.	-I can explain ways that some of the	, ,	· · · · · · · · · · · · · · · · · · ·
	feel if I do not ask their permission or	Online Reputation	information about anyone online could	difficulties) online.	someone is worried about this.
	ignore their answers before sharing	-l can explain how to search for information about others online.	have been created, copied or shared by	Online Reputation	Online Reputation
	something about them online.		others.	-I can search for information about an	-l can explain the ways in which anyone
	-I can explain why I should always ask a	-I can give examples of what anyone may		individual online and summarise the	can develop a positive online reputation.
	trusted adult before clicking 'yes', 'agree'	or may not be willing to share about		information found.	-l can explain strategies anyone can use
	or 'accept' online.	themselves online.		-l can describe ways that information	to protect their 'digital personality' and
	Online Reputation	-l can explain the need to be careful		about anyone online can be used by	online reputation, including degrees of
	-l can explain how information put online	before sharing anything personal.		1	anonymity
	about someone can last for a long time.	-l can explain who someone can ask if		others to make judgments about an	
	-I can describe how anyone's online	they are unsure about putting something		individual and why these may be	
	information could be seen by others.	online.		incorrect.	
	-I know who to talk to if something has				
	been put online without consent or if it is				
	incorrect.				

	Year I	Year 2	Year 3 & Year 4 Cycle B	Year 3 & Year 4 Cycle A	Year 5	Year 6
	Online Safety: Conduct	Online Safety: Conduct	Online Safety: Conduct	Online Safety: Conduct	Online Safety: Conduct	Online Safety: Conduct
	-Identify some risks presented by new	-Learn to respect the work of others that is	-Know how to respond to unpleasant	-Know there are writing conventions for	-Know when to reply to a group email using	-Understand the importance of appropriate
	technologies inside and outside school (e.g.	stored on a shared drive of a network or	communications via mobile phone, text, IM or	electronic communication (language, tone,	'reply all' and when to 'cc'.	online behaviour and that online bullying is
	online games, mobile phone texting,	presented online.	email, chat rooms. (Save the message and	accuracy).	Online Bullying	unacceptable. Know to whom to report any
	cyberbullying).	Online Bullying	show to a trusted adult).	Online Bullying	- I can recognise online bullying can be	incidents.
	Online Bullying	- I can explain what bullying is, how people	Online Bullying	-I can recognise when someone is upset, hurt	different to bullying in the physical world and	-Understand the different audience of a
	-l can describe how to behave online in ways	may bully others and how bullying can make	- I can describe appropriate ways to behave	or angry online.	can describe some of those differences.	school Learning Platform and an online social
	that do not upset others and can give examples	someone feel.	towards other people online and why this is	-l can explain why people need to think	-l can describe how what one person	network.
	Managing Online Information	-l can explain why anyone who experiences	important.	carefully about how content they post might	perceives as playful joking and teasing	Online Bullying
	- I can give simple examples of how to find	bullying is not to blame.  -I can talk about how anyone experiencing	-I can give examples of how bullying behaviour could appear online and how someone can	affect others, their feelings and how it may	(including 'banter') might be experienced by	- I can describe how to capture bullying content as evidence (e.g screen-grab, URL,
	information using digital technologies, e.g. search engines, voice activated searching).	bullying can get help	get support.	affect how others feel about them (their reputation).	others as bullying.  -I can explain how anyone can get help if they	profile) to share with others who can help
	-I know / understand that we can encounter a	Managing Online Information	Managing Online Information	-l can describe ways people can be bullied	are being bullied online and identify when to	me.
	range of things online including things we like	-l can use simple keywords in search engines.	- I can demonstrate how to use key phrases in	through a range of media (e.g. image, video,	tell a trusted adult.	-l can explain how someone would report
	and don't like as well as things which are real	-I can demonstrate how to navigate a simple	search engines to gather accurate information	text, chat).	-l can identify a range of ways to report	online bullying in different contexts.
	or make believe / a joke.	webpage to get to information I need (e.g.	online.	Managing Online Information	concerns and access support both in school	Managing Online Information
	-I know how to get help from a trusted adult if	home, forward, back buttons; links, tabs and	- I can explain what autocomplete is and how	- I can analyse information to make a	and at home about online bullying.	-l can explain how search engines work and
	we see content that makes us feel sad,	sections).	to choose the best suggestion.	judgement about probable accuracy and I	-I can explain how to block abusive users.	how results are selected and ranked.
	uncomfortable worried or frightened.	-I can explain what voice activated searching is	- I can explain how the internet can be used	understand why it is important to make my	-l can describe the helpline services which can	-l can explain how to use search technologies
ば	Health, wellbeing & lifestyle	and how it might be used, and know it is not a	to sell and buy things.	own decisions regarding content and that my	help people experiencing bullying, and how to	effectively.
a a	- I can explain rules to keep myself safe when	real person (e.g. Alexa, Google Now, Siri).	-l can explain the difference between a 'belief',	decisions are respected by others.	access them (e.g. Childline or The Mix).	-l can describe how some online information
Online Safety Progression: Conduct	using technology both in and beyond the	-l can explain the difference between things	an 'opinion' and a 'fact. and can give examples	-l can describe how to search for information	Managing Online Information	can be opinion and can offer examples.
Ŭ	home.	that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'.	of how and where they might be shared	within a wide group of technologies and make a judgement about the probable accuracy (e.g.	- I can explain the benefits and limitations of using different types of search technologies	-I can explain how and why some people may present 'opinions' as 'facts'; why the
Ë		-l can explain why some information I find	online, e.g. in videos, memes, posts, news stories etc.	social media, image sites, video sites).	e.g. voice-activation search engine.	popularity of an opinion or the personalities
. <u>e</u>		online may not be real or true	-I can explain that not all opinions shared may	-l can describe some of the methods used to	-l can explain how some technology can limit	of those promoting it does not necessarily
SS		Health, wellbeing & lifestyle	be accepted as true or fair by others (e.g.	encourage people to buy things online (e.g.	the information I aim presented with e.g.	make it true, fair or perhaps even legal.
7		- I can explain simple guidance for using	monsters under the bed).	advertising offers; in-app purchases, pop-ups)	voice-activated searching giving one result.	-l can define the terms 'influence',
õ		technology in different environments and	-I can describe and demonstrate how we can	and can recognise some of these when they	-I can explain what is meant by 'being	'manipulation' and 'persuasion' and explain
₫		settings e.g. accessing online technologies in	get help from a trusted adult if we see	appear online.	sceptical'; I can give examples of when and	how someone might encounter these online
Ϋ́		public places and the home environment.	content that makes us feel sad, uncomfortable	-I can explain why lots of people sharing the	why it is important to be 'sceptical'.	(e.g. advertising and 'ad targeting' and
a e		- I can say how those rules / guides can help	worried or frightened.	same opinions or beliefs online do not make	-l can evaluate digital content and can explain	targeting for fake news).
Š		anyone accessing online technologies.	Health, wellbeing & lifestyle	those opinions or beliefs true.	how to make choices about what is	-I understand the concept of persuasive design
je Je			- I can explain why spending too much time using technology can sometimes have a	-l can explain that technology can be designed	trustworthy e.g. differentiating between adverts and search results.	and how it can be used to influences peoples' choices.
≔			negative impact on anyone, e.g. mood, sleep,	to act like or impersonate living things (e.g. bots) and describe what the benefits and the	-l can explain key concepts including:	- I can demonstrate how to analyse and
ō			body, relationships; I can give some examples	risks might be.	information, reviews, fact, opinion, belief,	evaluate the validity of 'facts' and information
_			of both positive and negative activities where	-I can explain what is meant by fake news e.g.	validity, reliability and evidence.	and I can explain why using these strategies
			it is easy to spend a lot of time engaged (e.g.	why some people will create stories or alter	-I can identify ways the internet can draw us	are important.
			doing homework, games, films, videos).	photographs and put them online to pretend	to information for different agendas, e.g.	-I can explain how companies and news
			-I can explain why some online activities have	something is true when it isn't	website notifications, pop-ups, targeted ads.	providers target people with online news
			age restrictions, why it is important to follow	Health, wellbeing & lifestyle	-I can describe ways of identifying when online	stories they are more likely to engage with
			them and know who I can talk to if others	-I can explain how using technology can be a	content has been commercially sponsored or	and how to recognise this.
			pressure me to watch or do something online	distraction from other things, in both a	boosted, (e.g. by commercial companies or by	-l can describe the difference between online
			that makes me feel uncomfortable (e.g. age	positive and negative way.	vloggers, content creators, influencers).	misinformation and dis-information.
			restricted gaming or web sites).	-l can identify times or situations when	-l can explain what is meant by the term	-l can explain why information that is on a
				someone may need to limit the amount of	'stereotype', how 'stereotypes' are amplified	large number of sites may still be inaccurate
				time they use technology e.g. I can suggest	and reinforced online, and why accepting	or untrue.
				strategies to help with limiting this time.	'stereotypes' may influence how people think about others.	-I can assess how this might happen (e.g. the sharing of misinformation or disinformation). I
					-I can describe how fake news may affect	can identify, flag and report inappropriate
					someone's emotions and behaviour, and	content
					explain why this may be harmful.	
					-I can explain what is meant by a 'hoax'. I can	
					explain why someone would need to think	
					carefully before they share.	
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Health, wellbeing & lifestyle -I can describe ways technology can affect health and well-being both positively (e.g. mindfulness apps) and negativelyI can describe some strategies, tips or advic to promote health and wellbeing with regard to technologyI recognise the benefits and risks of accessir information about health and well-being onlin and how we should balance this with talking	technology can place on someone and how / when they could manage thisI can recognise features of persuasive design and how they are used to keep users engaged (current and future use).
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6,	, ,
-I recognise the benefits and risks of accessing	g -I can recognise features of persuasive design
information about health and well-being onli	e and how they are used to keep users engaged
and how we should balance this with talking	(current and future use).
to trusted adults and professionals.	-I can assess and action different strategies to
-I can explain how and why some apps and	limit the impact of technology on health (e.g.
games may request or take payment for	night-shift mode, regular breaks, correct
additional content (e.g. in-app purchases,	posture, sleep, diet and exercise).
lootboxes) and explain the importance of	
seeking permission from a trusted adult	
before purchasing	