

		COM	PUTER SYSTEMS AND N	ETWORKS		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
EYFS	Information Tec Use technology purposefi manipulate and re Information T Recognise common use beyon Onlin Use technology safely and information private; iden support when they have	Year 2 chnology – Software ully to create, organise, store, etrieve digital content cechnology – Uses s of information technology and school me Safety respectfully, keeping personal tify where to go for help and e concerns about content or	Year 3 Select, use and combine a create a range of programme of progr	Year 4 Information Tech variety of software (including in rams, systems and content that evaluating and present Information Te etworks including the internet; o; and the opportunities they of Information Technology ffectively, appreciate how resu digital Ki Online Safety	nnology – Software nternet services) on a range of a accomplish given goals, including data and information echnology – Uses how they can provide multiple after for communication and coll – Searching (Year 4 and 6) Its are selected and ranked, and content. now (Year 4-6)loggin	digital devices to design and ing collecting, analysing, services, such as the world laboration. d be discerning in evaluating
			Design, write and debug pr	ograms that accomplish specifi	c goals, including controlling or	simulating physical syst
	EYFS	Information Tec Use technology purposefic manipulate and re Information T Recognise common use beyon Onlir Use technology safely and information private; iden support when they have		Information Technology – Software Use technology purposefully to create, organise, store, manipulate and retrieve digital content Information Technology – Uses Recognise common uses of information technology beyond school Online Safety Use 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. Select, use and combine a create a range of prog Understand computer ne wide well Use search technologies e	Information Technology – Software Use technology purposefully to create, organise, store, manipulate and retrieve digital content Information Technology – Uses Recognise common uses of information technology beyond school Online Safety Use 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. Information Technology create a range of programs, systems and content that evaluating and present Understand computer networks including the internet; wide web; and the opportunities they or Use search technologies effectively, appreciate how resure digital Use search technologies effectively, appreciate how resure digital Use search technologies effectively, appreciate how resure digital Design, write and debug programs that accomplish specific	Information Technology – Software Use technology purposefully to create, organise, store, manipulate and retrieve digital content Information Technology – Uses Recognise common uses of information technology beyond school Online Safety Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or Vear 3 Year 4 Year 5 Information Technology – Software Select, use and combine a variety of software (including internet services) on a range of create a range of programs, systems and content that accomplish given goals, include evaluating and presenting data and information Information Technology – Uses Understand computer networks including the internet; how they can provide multiple wide web; and the opportunities they offer for communication and col Use search technologies effectively, appreciate how results are selected and ranked, and digital content.



					07		
	Range 6:	Technology Around Us	IT Around Us	Connecting Computers	The Internet	Systems and Searching	Communication
	I can complete a	I can choose a piece of	I can describe some uses of	I can identify input and	I can describe how	I can describe the input and	I can outline methods of
	simple program on	technology to do a job	computers	output devices.	networks connect to other	output of a search engine	communicating and
	electronic devices	I can recognize that some	I can identify information	I can explain that a	networks.	I can demonstrate that	collaborating using the
	I can create content	technology can be used in	technology in school	computer system accepts	I can explain how the	different search terms	internet
	such as a video	different ways	Identify information	an input and processes it	content of the World Wide	produce different results	I can choose methods of
	recording, stories,	I can identify the main	technology beyond school	to produce an output.	Web is created, owned, and	I can evaluate the results of	internet communication
	and/or draw a picture	parts of a computer	<i>5.</i> .	I can explain how a	shared by people.	search terms	and collaboration for given
	on screen	I can use a mouse in		computer network can be	I can describe the type of		purposes
	I can develop digital	different ways		used to share	content/media that can be		I can evaluate different
<u>s</u>	literacy skills by being	I can use a keyboard to		information.	added, created, and shared		methods of online
Skills	able to access,	type		I can explain the role of a	on the World Wide Web.		communication and
	understand and	I can use the keyboard to		switch, server, and	I can evaluate the reliability		collaboration
	interact with a range	edit text		wireless access point in a	of content and the		I can decide what you
	of technologies			network.	consequences of unreliable		should and should not
	• I can use the			I can identify network	content.		share online
	internet with adult			devices around me.			
	supervision to find			I can explain how			
	and retrieve			networks can be			
	information of			connected to other			
	interest to them			networks.			
		I know that technology is	I know that different types of	I know that a process acts	I know that the World Wide	I know that a system is a set	I know that data is
		something that can help	computers are used in school.	on the inputs.	Web comprises of websites	of interconnected parts	transferred across
		us.	I know that a computer is a	I know that an output is	and web pages.	which work together	networks using agreed
		I know examples of	part of information	produced by the process.	I know how to access the	I know that inputs,	protocols (methods)
		technology and how it	technology.	I know how changing the	World Wide Web.	processes, and outputs in	I know that connections
90		helps us.	I know the features of	process can affect the	I know the need for security	large IT systems	between computers allow
ed		I know that a computer is	information technology.	output.	on the internet.	I know that computers can	access to shared stored
<u>></u>		an example of	I know how rules for using	I know what an input is.	I know how information	be connected together to	files
Knowledge		technology.	information technology can	I know that a digital	can be shared via the World	form IT systems	I know that data is
~		I know that choices are	help us.	device is made up of	Wide Web.	I know that data can be	transferred in packets
		made when using	I know about uses of	several parts.	I know the benefits of the	transferred between IT	I know computers
		technology.	technology.	I know that computers	World Wide Web.	systems	connected to the internet
			I know how information	can be connected to each		3,5555	allow people in different
			technology benefits us.	other.			places to work together
			technology beliefits us.	otilet.			places to work together



needed when using technology. when using information technology. technology. when using information technology. technology. technology. I know that the internet tender interconnection of networks is the internet. I know that the internet tender internet tender interconnection of networks is the internet. I know that the internet internet tender internet tender interconnection of networks is the internet. I know that the internet in	the opportunities
technology. technology. way that we work. networks is the internet. lives comm I know the benefits of computer networks. enables us to view the are examples of large IT I know that the internet are examples of large IT I know that we work. I know that we work. networks is the internet. I know that search engines collaboration.	
I know the benefits of computer networks. I know that the internet are examples of large IT I know that search engines coll	
computer networks. enables us to view the are examples of large IT I k	munication and
	ollaboration
I know how devices in a World Wide Web. systems comm	I know that
	municating and
	oration using the
	et can be public or
	private
	w which types of
· · · · · · · · · · · · · · · · · · ·	a can be shared
I know how information is crawlers in creating an throug	ugh the internet
passed through multiple index	
connections. I know how search results	
are selected	
I know that ranking orders	
search results to make	
them more useful	
I know how ranking is	
determined by rules, and	
that different search	
engines use different rules	
I know why the order of	
results is important and to	
whom	
I know how search engines	
make money by selling	
targeted advertising space	
I know some of the	
limitations of search	
engines	
	le, Bing, Yahoo!,
	ws, Duck Duck Go,
keyboard, screen, double- barcode, scanner/scan network, network cables, honest, information, index, web crawler, bot, opt	ptimisation,
click, typing network sockets, network internet, links, network content creator, selection, commun	unication, public,
switch, non-digital, security, network switch, ranking private,	e, one-way, two-
output, process, program, ownership, permission, way, one	ne-to-one, one-to-
Reyboard, screen, double-click, typing barcode, scanner/scan network, network cables, network sockets, network sockets, network switch, non-digital, output, process, program, server, wireless access route tracing, router, souther sockets, network switch, ownership, permission, server, wireless access route tracing, router, souther s	ny, SMS, email,
point routing, server, sharing, WhatsApp	pp, blog, You tube,
web address, web page, Twitter,	r, BBC Newsround
website, World Wide Web	



Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Superheroes (Autumn 1)	Wriggles and Crawls (Autumn 1)	(Summer 2)	(Autumn 1)	(Autumn 1)	(Autumn 1)





				CREATING MEDIA			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum		Use technology purposef manipulate and response of manipulate and response of the support when they have contact on the internet of the support when they have contact on the internet of the support when they have contact on the internet of the support when they have contact on the internet of the support when they have contact on the internet of the support when the support whe	chnology – Software cully to create, organize, store, etrieve digital content cafety (Year 1) respectfully, keeping personal citify where to go for help and e concerns about content or or other online technologies. chology – Uses (Year 2) s of information technology and school		variety of software (including in rams, systems and content that	nology – Software nternet services) on a range of c accomplish given goals, includi ng data and information.	
Skills	I can complete a simple program on an electronic device. I can use ICT hardware to interact with computer software. I can create a video recording, story, and/or draw a picture on screen. I can use the internet with adult supervision to find and retrieve information. I can use a range of technologies to develop my digital literacy skills.	Digital Writing I can use letter, number, and space keys to enter text into a computer. I can use punctuation and special characters. Select text. I can use the Backspace key to remove text. Position the text cursor in a chosen location. I can choose options to achieve a desired effect. I can change the appearance of text on a computer. I can use Undo.	Digital Photography I can press or tap to take a picture. I can hold a device safely and responsibly. I can capture a digital image. I can review photographs taken. I can delete poor quality images. I can focus. I can zoom in and out. I can edit a photo. I can recolour a photo. I can crop a photo.	Animation I can plan an animation using a storyboard. I can set up the work area with an awareness of what needs to be captured. I can capture an image. I can use the onion skinning tool to review subject position. I can move a subject between captures. I can review a captured sequence of frames as an animation. I can remove frames to improve an animation. I can add media to enhance animation. I can review a completed project.	Audio Editing I can record sound using a computer I can play recorded audio. I can import audio into a project. I can delete a section of audio. I can change the volume of tracks in a project I can consider the results of editing choices made.	I can create 3D graphical objects on a computer screen. I can alter the view of the 3D space. I can place a 3D object in a 3D space. I can select an object. I can modify an object. I can reposition objects in three dimensions. I can resize an object in three dimensions. I can resize an object in three dimensions. I can recognise that blank objects must be used as placeholders to create holes.	Vector Drawing I can add an object to a vector drawing. I can delete objects. I can select one object or multiple objects. I can move objects between the layers of a drawing. I can duplicate objects using copy and paste. I can modify objects. I can reposition objects. I can group and ungroup selected objects. I can combine options to achieve a desired effect. I can create a vector drawing for a given purpose.



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						I can select multiple objects. I can recognise the role of scale in design. I can combine objects. I can group objects. I can modify multiple objects. I can duplicate an object. I can delete an object. I can recolour an object. I can use an object as a placeholder.	
won X	Range 6: I know how to complete a simple program on electronic devices I know how to use ICT hardware to interact with age-appropriate computer software I know how to create content such as a video recording, stories, and/or draw a picture on screen I know that digital literacy skills help by being able to access, understand and interact with a range of technologies I know how to use the internet with adult supervision to find and retrieve	I know that a keyboard is used to enter text into a computer. I know that the Shift key changes the output of a key. I know that text can be changed. I know that text can be edited. I know that the appearance of text can be changed. I know the impact of choices made.	I know that some digital devices can capture images using a camera. I know when to choose a landscape or portrait photograph. I know that people around me can view my screen to see my photos. I know that photos can be saved. I know that photographs can be changed through editing. I know that a photograph is composed by the photographer. I know the features of a good photograph. I know how to choose an image that could be improved by editing. I know that photos can be retrieved, edited, and resaved. I know that some images are not real/fake. I know how to consider the results of choices I have made.	I know that an animation is made up of a sequence of images. I know that a capturing device needs to be in a fixed position. I know that smaller movements create smoother animation. I know the need for consistency in working. I know the impact of adding other media to an animation. I know that a project must be exported so it can be shared.	I know that sound can be recorded. I know that an input device is needed to record sound I know that output devices are needed to play audio I know that recorded audio can be stored on a computer I know that audio can be edited I know that sound can be represented visually as a waveform I know that audio can be layered so that multiple sounds can be played at the same time.	I know that 3D objects comprise length, width, and height (depth). I know the differences when working in 3D compared with 2D. I know that structures can be broken down into a collection of 3D objects. I know the similarities and differences between reallife 3D and virtual 3D.	I know that a vector drawing comprises separate objects. I know that each object in a drawing is in its own layer. I know the impact of choices made. I know that vector images can be scaled without impact on quality. I know that objects can be modified in groups. I know how alignment and size guides can help create a more consistent drawing.



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	information of interest to them						
Key Vocabulary		Word processor, keyboard, keys, letters, Microsoft Word, Google Docs, Word processor, keyboard, keys, letters, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, cursor, select, font, toolbar, undo, backspace,	Device, camera, photograph, capture, image, digital, Landscape, portrait, horizontal, vertical, field of view, narrow, wide, format, Framing, focal point, subject matter, field of view, format, compose, Natural lighting, artificial lighting, flash, focus, background, foreground, Editing, tools, colour, filter, images, PixIr, Format, framing, lighting, filter, changed, real	Animation, character, consistency, delete, evaluation, events, flip book, frame, image, import, media, onion skinning, photograph, sequence, setting, Stopframe animation, transition	Audio, edit, editing, evaluate, export, feedback, file, headphones, input, microphone, mixing, MP3, output, pause, playback, podcast, record, save, selection, sound, speaker, start, stop, time-shift	2D, 3D, 3D object, 3D space, colour, dimensions, duplicate, evaluate, group, hole, improve, lift, modify, placeholder, position, resize, rotate, select, ungroup, view	Align, drawing tools, layers, move, object, paste, reflection, reuse, toolbar, vector, vector drawing
Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Enchanted Woodland (Spring 2)	The Scented Garden (Summer 1)	(Spring 1)	(Autumn 2)	(Spring 2)	(Spring 1)





				CREATING MEDIA							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
culum		Use technology purposef	chnology – Software ully to create, organize, store, etrieve digital content	Information Technology – Software 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.							
National Curriculum				Use search technologies e	ffectively, appreciate how resul	nology – Searching ts are selected and ranked, and content.	be discerning in evaluating				
_				Online Safety (Year 4-6)							
				Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems;							
	I can complete a	Digital Painting	solve problems by decomposing them into smaller parts. Digital Painting Making Music Desktop Publishing Photo Editing Video Editing Web Page Creation								
	simple program on an	I can use a computer to	I can recognise that	I can show that page	I can recognise that digital	I can review existing video	I can review an existing				
	electronic device.	paint a picture	information on a computer	orientation can be	images can be manipulated.	content.	website (navigation bars,				
	I can use ICT	I can digitally make marks	can be stored.	changed.	I can recognise that images	I can plan a video	header)				
	hardware to interact	on a computer screen	I can explain that information	I can organise text and	can be changed for	production using a	I can create a new blank				
	with computer	I can use the brush tool	on a computer can be saved.	image placeholders in a	different purposes.	storyboard.	web page.				
	software.	I can use tools to draw	I can explain that stored	page layout.	I can use the most	I can review captured	I can add text to a web				
	I can create a video	shapes	information can be retrieved,	I can add and remove	appropriate tool for a	video.	page.				
	recording, story,	I can use tools to draw	edited, and resaved.	images to and from	particular purpose.	I can use a recording device	I can set the style of text				
	and/or draw a picture	lines	I can recognise that people	placeholders.	I can recognise that not all	and a computer to make a	on a web page.				
Skills	on screen.	I can use the un-do	around me can view my	I can review a document	images are real.	video.	I can embed media in a				
S	I can use a range of	button to correct a	screen to see my work.	I can add text to a	I can consider the impact of	I can hold the device safely	web page.				
	technologies to	mistake	I can recognise that my work	placeholder.	changes made on the	in landscape orientation.	I can change the				
	develop my digital	I can change brush colour	can be printed and shared.	I can edit text in a	quality of the image.	I can locate the function on	appearance of text.				
	literacy skills.	I can change brush size	I can recognise that my work	placeholder.	I can change the	the device to record the	I can add web pages to a				
	I can use the internet	I can change fill colour in	can be shared between	I can choose fonts and	composition of an image.	video.	website.				
	with adult supervision	a shape	devices.	apply effects to text.	I can apply a change	I can press the start/stop	I can insert hyperlinks to				
	to find and retrieve	I can change line size		I can move/resize and	globally.	button to end the	another site.				
	information.	I can change line colour		rotate images.	I can apply changes locally.	recording.	I can insert hyperlinks				
		I can use the fill tool to			I can make additions.		between pages.				
		change colours					I can preview a web page (different screen sizes).				



Range 6: - I know how to complete a simple program on electronic devices - I know how to use a composition of the program on electronic devices - I know how to use a composition of the program on electronic devices - I know how to use a composition to achieve a desired effect. I know how to use a composition to achieve a desired effect. I know how to use a composition to achieve a desired effect. I know how to use a composition to achieve a desired effect. I know how to use a computer software to interact with age-appropriate computer software - I know how to use as a video recording, stories, and off draw a picture on screen experience of the program of th								-
use the internet with adult supervision to find and retrieve information of	Knowledge	I know how to complete a simple program on electronic devices I know how to use ICT hardware to interact with age-appropriate computer software I know how to create content such as a video recording, stories, and/or draw a picture on screen I know that digital literacy skills help by being able to access, understand and interact with a range of technologies I know how to use the internet with adult supervision to find and retrieve	changed to produce different outcomes. I know to choose options to achieve a desired effect. I know the impact of choices made. I know how to use basic tools to create an image. I know how to use a wider variety of tools to	I know how to use a computer to create a piece of music. I know how to listen to music. I know how music can make us think and feel. I know that music is made by humans. I know how music can be used in different ways. I know that there are patterns in music. I know how music is made from a series of notes. I know how to create music for a purpose. I know how different musical sequences create different effects. I know how to review and	images can be used together to convey information. I know that landscape and portrait are two different page orientations. I know how different layouts can suit different purposes. I know that DTP pages can be structured with placeholders. I know the benefits of using a DTP application. I know how different font styles and effects are used for particular	I know how to use a computer to (further) manipulate images. I know how to arrange (rotate, flip). I know how to crop. I know how to adjust colours. I know how to apply filters. I know how to add effects. I know how to retouch. I know how to reuse. I know how to draw. I know how to add text. I know how to open/retrieve an image. I know how to cut out a part. I know how to add an	create specific effects. I can focus, zoom and compose. I can pan left/right or tilt up or down. I can locate a video captured on a device. I can play back video. I can select and apply effects/delete/crop/split to a section of video. I know that video is moving pictures that can be combined with audio. I know the key concepts of composition. I know that some digital devices can capture video using a camera. I know that video can be captured automatically (e.g. a wildlife camera). I know that video can be captured by a person operating a camera. I know the features of a good video. I know how a video can be improved. I know that a video can be improved by editing. I know the results of choices made. I know how to capture/play	between HTML and visual display. I know the need to preview pages (different screens / devices). I know the need for a navigation path. I know that web pages can contain different media types. I know that web pages are written by people. I know the components of a web page layout. I know the implications of linking to content owned by others. I know that a website is a set of hyperlinked web pages. I know about the ownership and use of



Key Vocabulary		paint program, tool, paintbrush, erase, fill, undo, Piet Mondrian, primary colours, shape tools, line tool, fill tool, undo tool, Henri Matisse, Wassily Kandinsky, feelings, brush style, Georges Seurat, Pointillism, brush size, Pictures, painting, computers, like, prefer, dislike	Music, planets, Mars, Venus, war, peace, quiet, loud, feelings, emotions, Pattern, rhythm, pulse, Neptune, pitch, tempo, rhythm, notes, instrument, Create, pulse/beat, Open, edit,	Advantages, benefits, communicate, content, copy, desktop publishing, disadvantages, font, font style, images, landscape, orientation, paste, placeholder, portrait, purpose, template, text	Adjustments, arrange, border, brighten, clone, colours, composition, copyright, crop, digital, edit, effects, elements, flip, hue/saturation, illustrator, layer, magic wand, original, pixels, publication, recolour, retouch, rotate, save, search, select, sepia, shapes, sharpen, undo, version, vignette	Audio, camera, clip, close up, delete, evaluate, export, filming, high angle, import, lens, long shot, low angle, microphone, midrange, moving subject, normal angle, pan/panning, reorder, reshoot, review, share, side by side, split, static camera, storyboard, talking head, tilt, trim, video, video camera, zoom	breadcrumb trail, browser, copyright, device, embed, evaluate, external link, fair use, Google Sites, header, home page, hyperlink, hypertext markup language (HTML), implication, layout, logo, media, navigation, preview, purpose, subpage, website
Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Dinosaur Planet (Summer 1)	Tunnels, Turrets and Towers (Spring 1)	(Autumn 1)	(Summer 2)	(Summer 1)	(Autumn 2)



				DATA AND INFORMAT	ΓΙΟΝ		
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum		Use technology purposeformanipulate and responding to the control of the control	chnology – Software ully to create, organize, store, etrieve digital content ne Safety respectfully, keeping personal etify where to go for help and e concerns about content or or other online technologies.	Information Technology – Software variety of software (including internet services) on a range of digital devices to design and rams, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Information Technology – Searching (Year 5 ONLY) ffectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.			
	an electronic device. I can use ICT hardware to interact with computer software. I can create a video recording, story, and/or draw a picture on screen.	attributes of an object. I can collect simple data. I can show that collected data can be counted. I can describe the properties of an object. I can choose an attribute to group objects by. I can group objects to answer questions.	data onto a computer. I can recognise that people, animals and objects can be described by attributes. I can use a computer to view data in different formats. I can use pictograms to answer single-attribute questions. I can use a computer to	from different levels of the branching database. I can create questions with yes/no answers.	automatically collect data samples. I can use a computer program to sort data by one attribute. I can present data in a table. I can present data in a graph.	database. I can design a structure for a flat-file database. I can choose different ways to view data. I can ask questions that need more than one attribute to answer. I can choose which attribute to sort data by to	can be calculated using different operations. I can recognise that changing inputs also changes outputs. I can apply formulas to data, including duplication.
Skills	I can use a range of technologies to develop my digital literacy skills. I can use the internet with adult supervision to find and retrieve information.	I can explain that objects can be grouped by similarities (attributes). I can describe a group of objects (based on commonality).	answer comparison questions (graphs, tables).			answer a given question. I can choose which attribute and value to search by to answer a given question (operands). I can choose multiple criteria to search data to answer a given question (AND and OR). I can select an appropriate graph to visually compare data. I can choose suitable ways to present information to other people.	



	Range 6:	I know that objects can	I know how to use a tally	I know how to investigate	I know that questions can	I know how to design an	I know questions that can
	• I know how to	be counted.	chart to collect data.	questions with yes/no	be answered using a given	approach to answer a	be answered using data.
	omplete a simple	I know that information	I know how to compare	answers.	data set.	question using a database.	I know that
	program on an	can be presented.	objects that have been	I know the object	I know that a sensor can be	I know that a computer	objects/artifacts can be
	electronic devices	I know that information	grouped by attribute.	attributes needed to	used as an input device for	program can be used to	described using data.
	 I know how to 	can be presented in	I know how to suggest	collect relevant data.	data collection.	organise data.	I know that there are
	use ICT hardware	different ways.	appropriate headings for tally	I know how to select an	I know that a data logger	I know how ordering data	different software tools to
	to interact with		charts and pictograms.	attribute to separate	captures 'data points' from	allows us to answer some	work with data.
	age-appropriate		I know how to construct	objects into two similarly	sensors over time.	questions.	I know how to evaluate
	computer software		(complete) a given	sized groups.	I know the data that we	I know that we present	results in comparison to
	 I know how to 		comparison question.	I know that data can be	need to answer questions.	information to	the question asked.
	create content such		I know how to use a	used to answer	I know that sensors are	communicate a message.	I know that formulas can
	as a video		computer program to present	questions.	input devices.	I know that tools can be	be used to produce
	recording, stories,		information in different ways.	I know what data needs	I know how to use a larger	used to select data to	calculated data
	and/or draw a		I know how to explain that	to be collected to answer	data set to find.	answer questions.	I know what makes good
99	picture on screen		we can present information	a specific question.	I know how to use a digital	I know that computer	questions to answer with
Knowledge	I know that digital		using a computer.	I know how to relate two	device to collect data.	programs can be used to	data.
3	literacy skills help		I know how to give simple	levels of a branching	automatically information	compare data visually.	I know what an item of
) OL	by being able to		examples of why some	database using AND.	I know how to export	I know how operands can	data is.
~	access, understand		information should not be	I know how to compare	information in different	be used to filter data.	I know how to form
	and interact with a		shared.	the information shown in	formats.	I know how 'AND' and 'OR'	simple, relevant questions
	range of			a pictogram with a		can be used to refine data	that can be answered
	technologies			branching database.		selection.	using data.
	 I know how to 						I know that computers
	use the internet						deal with different data
	with adult						types in different ways.
	supervision to find						I know why data should be
	and retrieve						organised.
	information of						I know how to choose
	interest to me.						suitable ways to represent
							data.
		Object, label, group,	More than, less than, most,	attribute, branching	analyse, collection,	axis, chart, field, filter,	calculation, cell reference,
Key Vocabulary		search, image, property,	least, organise, data, object,	database, compare,	conclusion, data, data	graph, group, presentation,	cells, columns,
Key		label, colour, size, shape,	tally chart, votes, total, enter,	database, decision tree,	logger, data set, export,	record, search, sort	comparison, data heading,
oca -		property, value, label,	data, tally chart, compare,	equal, even, information,	import, input device,		duplicate, evaluate,
>		colour, data set, value,	objects, count, pictogram,	objects, order, organise,			formula, input, operation,



		more, less, most, fewest, data set, least, fewest, the same	explain, more, less, more common, least common, Attribute, group, same, different, object, most popular, least popular, conclusion, block diagram, common, sharing, data	pictogram, questions, separate, structure, table, value	logged, review, sensor, table (layout)		organised, output, propose, question, range, results, rows, sigma
Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Enchanted Woodland (Spring 1)	Great Fire of London (Spring 2)	(Autumn 2)	(Summer 1)	(Summer 2)	(Summer 2)



			PROGRAMMING A									
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
National Curriculum		Understand what algorimplemented as program programs execute by followinst Create and deb Use logical reasoning to p	Iter Science orithms are; how they are as, on digital devices; and that wing precise and unambiguous ructions aug simple programs redict the behaviour of simple ograms	Use sequence, selection, Use logical reasoning to ex Select, use and combine a	ograms that accomplish specific solve problems by decompose, and repetition in programs; we plain how some simple algorith programs Information Tech variety of software (including ir rams, systems and content that	er Science c goals, including controlling or osing them into smaller parts. ork with variables and various f ams work and to detect and core grams anology – Software accomplish given goals, including data and information.	orms of input and output. rect errors in algorithms and					



	-								
	I can complete a	Moving a Robot	Robot Algorithms	Sequence	Repetition in Shapes	Selection in Physical	Variables in Games		
	simple program on	I can choose a series of	I can choose a series of words	I can build a sequence of	I can list an everyday task	Computing	I can identify a variable in		
	an electronic	words that can be	that can be enacted as a	commands.	as a set of instructions	I can create a condition-	an existing program.		
	device.	enacted as a program.	sequence.	I can combine commands	including repetition.	controlled loop.	I can experiment with the		
	I can use ICT	I can choose a series of	I can explain what happens	in a program.	I can use an indefinite loop	I can use a condition in an	value of an existing		
	hardware to	commands that can be	when we change the order of	I can order commands in	to produce a given	'ifthen' statement to	variable.		
	interact with	run as a program.	instructions.	a program.	outcome.	start an action.	I can choose the name that		
	computer software.	I can run a program on a	I can choose a series of	I can create a sequence of	I can use a count-controlled	I can use selection to switch	identifies the role of a		
		device.	commands that can be run as	commands to produce a	loop to produce a given	the program flow in one of	variable to make it more		
			a program.	given outcome.	outcome.	two ways.	usable.		
			I can trace a sequence to		I can plan a program that	I can use a condition in an	I can decide where in a		
Skills			make a prediction.		includes appropriate loops	'ifthenelse' statement	program to set a variable.		
S			I can test a prediction by		to produce a given	to produce given outcomes.	I can update a variable		
			running the sequence.		outcome.		with a user input.		
			I can create and debug a		I can recognise tools that		I can use an event in a		
			program that has been		enable more than one		program to update a		
			written.		process to be run at the		variable.		
			I can run a program on a		same time		I can use a variable in a		
			device.		(concurrency).		conditional statement to		
					I can create two or more		control the flow of a		
					sequences that run at the		program.		
					same time.		I can use the same variable		
							in more than one location		
							in a program.		
	Range 6:	I know how to enact a	I know how to describe that a	I know that programs	I know what 'repeat' means	I know that a condition can	I know that a variable is		
	 I know how to 	given word.	series of instructions is a	start because of an input.	I know everyday tasks that	only be true or false.	something that is		
	complete a simple	I know words that can be	sequence.	I know what a sequence	include repetition as part of	I know that a count-	changeable.		
	program on	enacted.	I know how to recall that a	is.	a sequence, e.g. brushing	controlled loop contains a	I know examples of		
	electronic devices	I know how to predict the	series of instructions can be	I know that a program	teeth, dance moves.	condition.	information that is		
	Ciccii oinic devices	outcome of a command	issued before they are	includes sequences of	I know that we can use a	I know the difference	variable, e.g. a football		
a)	• I know how to	on a device.	enacted.	commands.	loop command in a	between a count-controlled	score during a match.		
ge	use ICT hardware	I know which commands	I know how to use logical	I know that the sequence	program to repeat	loop with a condition-	I know that a variable is		
<u> </u>		can be used on a given	reasoning to predict the	of a program is a process.	instructions.	controlled loop.	something that we can use		
Knowledge	to interact with	device.	outcome of a program.	I know that the order of	I know how to identify	I know that a condition-	in a program, e.g. score		
조	age-appropriate	I know what a given		commands can affect a	patterns in a sequence.	controlled loop will stop	I know that a program		
	computer software	command does.		program's output.	I know that in programming	when a condition is met.	variable is a single		
		I know how to match a		I know that different	there are indefinite loops	I know that when a	placeholder in memory for		
		command to an outcome.		sequences can achieve	and count-controlled loops.	condition is met, a loop will	a single value.		
		I know how to run a		the same output.	I know that an indefinite	complete a cycle before it	I know that a variable has		
		command (press a		I know that different	loop will run until the	stops.	a name and a value.		
		button).		sequences can achieve	program is stopped.				
				different outputs.					



	I know to choose a command for a given purpose. I know that a program is a set of commands a computer can run. I know that a series of instructions can be issued before they are enacted. I know how to build a sequence of commands in steps. I know how to combine commands in a program.			I know when to use a loop and when not to. I know the importance of instruction order in a loop. I know how to identify a loop within a program. I know that you can program a loop to stop after a specific number of times. I know how to identify patterns in a sequence, e.g. 'step 3 times' means the same as 'step, step, step'. I know that not all tools enable more than one process to be run at once.	I know that selection can be used to branch the flow of a program. I know that a loop can be used to repeatedly check whether a condition has been met. I know the importance of instruction order in 'ifthenelse' statements.	I know that the value of a variable can be used by a program. I know that the value of a variable can be updated. I know the way that a variable is changed. I know that a variable can be set as a constant (fixed value). I know the importance of setting up a variable at the start of a program. I know that there is only one value for a variable at a time. I know that if you change the value of a variable, you cannot access the previous value. I know that if you read a variable, the value remains. I know that the name of a
ıry	Forwards, backwards, turn, clear, go, commands, Instructions, directions, Left, right, turn, Plan, algorithm,	Instruction, sequence, clear, unambiguous, algorithm, program, order, algorithm, commands, prediction, Artwork, design, route, mat,	action, algorithm, backdrop, bug, code, commands, costume, debug, design, errors, event, glide, go to, logic,	animate, code-snippet, count-controlled loop, decompose, design, evaluate, event block, forever, infinite loop, loop,	action, answer, battery box, components, condition, conditional statement, connect, connection, constructive, crocodile	a computer. I know that the name of a variable needs to be unique. accelerometer, artwork, change, compass, direction, flashing, if then else, improve, name, navigation, plan, process,
Key Vocabulary	program, Route,	Debugging,	motion block, move, order, pen down, pen up, point in direction, programming blocks, resize, run the code, Scratch, sequence, setup,	modify, pattern, procedure, program, refine, repeat, repetition, trace, value	clips, design, FALSE, implement, input, LED, microcontroller, motor, outcomes, output, output component, question, run, selection, share, switch, TRUE	project, random, sensing, set, step counter, USB, value, variable



				sprite, stage, task, test, turn			
Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Moon Zoom (Autumn 2)	Beachcombers (Autumn 2)	(Spring 2)	(Spring 1)	(Autumn 2)	(Spring 2)



				PROGRAMMING E	3		
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum		Computer Science 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		Computer Science 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			
Nat				Information Technology – Software 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.			
Skills	I can complete a simple program on an electronic device. I can use ICT hardware to interact with computer software.	Introduction to Animation I can choose a series of words that can be enacted as a program. I can choose a series of commands that can be run as a program. I can run a program on a device.	An Introduction to Quizzes I can choose a series of words that can be enacted as a sequence. I can explain what happens when we change the order of instructions. I can choose a series of commands that can be run as a program. I can create and debug a program that has been written. I can run a program on a device. I can trace a sequence to make a prediction. I can test a prediction by running the sequence.	Events and Actions I can build a sequence of commands. I can combine commands in a program. I can order commands in a program. I can create a sequence of commands to produce a given outcome.	Repetition in Games I can list an everyday task as a set of instructions including repetition. I can use an indefinite loop to produce a given outcome. I can use a count-controlled loop to produce a given outcome. I can plan a program that includes appropriate loops to produce a given outcome. I can recognise tools that enable more than one process to be run at the same time (concurrency). I can create two or more sequences that run at the same time.	Selection in Quizzes I can experiment with a repeat-until loop. I can use a condition in an 'if then' statement to produce a given outcome. I can show that a condition can switch program flow in one of two ways. I can use a condition in an 'if then else' statement to produce given outcomes.	Sensing I can identify a variable in an existing program. I can experiment with the value of an existing variable. I can choose the name that identifies the role of a variable to make it more usable. I can decide where in a program to set a variable. I can update a variable with a user input. I can use an event in a program to update a variable. I can use a variable in a conditional statement to control the flow of a program. I can use the same variable in more than one location in a program.



Kange 6:
• I know how to
completes a simple
program on
electronic devices

Danca 6

• I know how to use ICT hardware to interact with age-appropriate computer software

Knowledge

I know how to enact a given word. I know words that can be enacted. I know how to predict the outcome of a command on a device.

on a device.

I know which commands
can be used on a given
device.

I know what a given

command does.

I know how to match a command to an outcome.

I know how to run a command (press a

button).
I know to choose a
command for a given
purpose.
I know that a program is a

set of commands a computer can run.

I know that a series of instructions can be issued before they are enacted.

I know how to build a sequence of commands in steps.

I know how to combine commands in a program.

I know how to describe a series of instructions as a 'sequence'.

I know how to recall that a series of instructions can be issued before they are enacted.

I know how to use logical reasoning to predict the outcome of a program.

I know that programs start because of an input. I know what a sequence is.

I know that a program includes sequences of commands.
I know that the sequence

of a program is a process.

I know that the order of commands can affect a program's output.

I know that different sequences can achieve the same output.

I know that different

sequences can achieve

different outputs.

I know what 'repeat' means
I know everyday tasks that
include repetition as part of
a sequence, e.g. brushing
teeth, dance moves.
I know that we can use a
loop command in a

program to repeat instructions.

I know how to identify patterns in a sequence.
I know that in programming there are indefinite loops and count-controlled loops.
I know that an indefinite

program is stopped.

I know when to use a loop and when not to.

I know the importance of instruction order in a loop.

loop will run until the

I know how to identify a loop within a program.
I know that you can program a loop to stop

after a specific number of times.
I know how to identify

I know how to identify patterns in a sequence, e.g. 'step 3 times' means the same as 'step, step, step'. I know that not all tools enable more than one process to be run at once.

I know that conditional statements are used in computer programs.
I know that a conditional statement connects a condition to an outcome.
I know that a condition is something that can either be true or false.
I know that instructions in a program will produce

specific outcomes.

I know that a countcontrolled loop contains a
condition.

I know that program flow can branch according to a condition. I know the importance of

instruction order in 'if...
then...' statements.
I know that a loop can be
used to repeatedly check
whether a condition has

been met.

I know the importance of instruction order in 'if... then... else...' statements. I know that a loop can stop when a condition is met, e.g. number of times. I know that a sequence within a count-controlled

or event-controlled loop.

I know that a loop can stop

when a condition is met,
e.g. an event.
I know how to modify a
count-controlled or eventcontrolled loop.

I know that a variable is something that is changeable. I know examples of

information that is

variable, e.g. a football score during a match. I know that a variable is something that we can use in a program, e.g. score I know that a program

variable is a single placeholder in memory for a single value.

I know that a variable has a name and a value. I know that the value of a variable can be used by a

program.

I know that the value of a variable can be updated.

I know the way that a variable is changed.
I know that a variable can

be set as a constant (fixed value).

I know the importance of setting up a variable at the start of a program.

I know that there is only one value for a variable at a time.

I know that if you change the value of a variable, you cannot access the previous value.

I know that if you read a variable, the value remains.

I know that the name of a variable is meaningless to a computer.



					<u> </u>		
						I know how to create a count-controlled or event-controlled loop.	I know that the name of a variable needs to be unique.
Key Vocabulary		ScratchJr, Bee-Bot, command, sprite, compare, programming, programming area, joining, command, start block, run, program, programming area, background, delete, reset, algorithm, predict, Effect, change, value, block, Instructions, appropriate, design, programming blocks,	Sequence, command, program, run, program, start, outcome, predict, program, blocks, Sprite, algorithm, design, sequence, Actions, sprite, project, blocks, modify, change, build, match, Compare, debug, features, evaluate	action, algorithm, backdrop, bug, code, commands, costume, debug, design, errors, event, glide, go to, logic, motion block, move, order, pen down, pen up, point in direction, programming blocks, resize, run the code, Scratch, sequence, setup, sprite, stage, task, test, turn	animate, code-snippet, count-controlled loop, decompose, design, evaluate, event block, forever, infinite loop, loop, modify, pattern, procedure, program, refine, repeat, repetition, trace, value	action, answer, battery box, components, condition, conditional statement, connect, connection, constructive, crocodile clips, design, FALSE, implement, input, LED, microcontroller, motor, outcomes, output, output component, question, run, selection, share, switch, TRUE	accelerometer, artwork, change, compass, direction, flashing, if then else, improve, name, navigation, plan, process, project, random, sensing, set, step counter, USB, value, variable
Topic / Coverage	Me and My Community Sparkle and Shine Winter Wonderland Puddles and Rainbows Dangerous Dinosaurs Big, Wide, World	Bright Lights, Big City (Summer 2)	Muck, Mess and Mixtures (Summer 2)	(Summer 1)	(Spring 2)	(Spring 1)	(Summer 1)



	DIGITAL LITERACY and OPERATIONAL SKILLS									
			DIGITAL LITE	RACY and OPER	ATIONAL SKILLS					
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Skills	 I can open up a keyboard I can press the keys on a keyboard and know that it will show letters I can type simple CVC words on a computer 	I can add and remove text I can make text bold I can use italic text I can underline I can select text I can change the font of text I can logon/off digital devices I can shut down a computer correctly I can use the shift key to type a capital letter I can use backspace I can use the mouse/trackpad to draw	 I can use the mouse or arrow keys to insert words and sentences I can use undo I can upload I can change size/colour and style of text. I can use two hands when typing I can search using a school approved web browser I can insert the @ symbol I can type using the space bar, return key and basic punctuation 	I can upload from digital devices and the Internet to a shared space I can access my work from any school computer by logging into my Google account I can edit and save my work in own account I can insert/cut/ copy/paste I can use CTRL+C and CTRL+V to copy and paste I can use SHIFT for capitals rather than CAPS LOCK I can use undo/redo I can align titles I can change font, font size, colour in a Google doc I can type with two hands and type a wider range of appropriate punctuation	I can use the online Dictionary/thesaurus I can use the snipping tool to take a screen shot I can use SHIFT CTRL Show Windows to take a screen shot on a Chromebook I can edit literacy work using Google docs/slides I can use spell checker I can share work in my Google account I can use CTRL+Z to undo and CTRL+Y to redo I can type using all letter, number and punctuation keys I can highlight and drag to move text/images around	 I can use an online dictionary/thesaurus to search out level specific grammar and vocabulary independently I can use a variety of techniques to save and annotate on screen projects (screenshots/snipping) I can find, save, crop and edit images to suit needs of projects I can use spellchecker and grammar checker to ensure consistency throughout work I can collaborate on one document with peers I can use of CTRL F to find words in a document and CTRL K to animate I can use doc.new / slides.new /form.new I can use HOME/END keys to go to the beginning/end of a line I can type using all letter, number and punctuation keys 	I can select suitable software to edit and redraft written work I can use a variety of keyboard shortcuts to improve efficiency on computing systems I can use CTRL+O to open files and CTRL D to duplicate I can use CTRL+HOME and CTRL+END to go to the beginning/end of a document I can type all keys using correct finger placement			





			(Educat	ONLINE SAFET tion for a Connect			
			(2000)		ou tronu,		
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Self-Image and Iden	tity		
Skills /Knowledge	I can recognise, online or offline, that anyone can say 'no' / 'please stop' / 'I'll tell' / 'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset	I can recognise that there may be people online who could make someone feel sad, embarrassed or upset. If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust and how they can help.	I can explain how other people may look and act differently online and offline. I can give examples of issues online that might make someone feel sad, worried, uncomfortable or frightened; I can give examples of how they might get help.	I can explain what is meant by the term 'identity'. I can explain how people can represent themselves in different ways online. I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming; using an avatar; social media) and why.	I can explain how my online identity can be different to my offline identity. I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them. I can explain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this.	I can explain how identity online can be copied, modified or altered. I can demonstrate how to make responsible choices about having an online identity, depending on context.	I can identify and critically evaluate online content relating to gender, race, religion, disability, culture and other groups, and explain why it is important to challenge and reject inappropriate representations online. I can describe issues online that could make anyone feel sad, worried, uncomfortable or frightened. I know and can give examples of how to get help, both on and offline. I can explain the importance of asking until I get the help needed.
			I can give examples of how	Online Relationshi	I can describe strategies	I can give examples of	I can explain how sharing
Skills /Knowledge	I can recognise some ways in which the internet can be used to communicate. I can give examples of how I (might) use technology to communicate with people I know.	I can give examples of when I should ask permission to do something online and explain why this is important. I can use the internet with adult support to communicate with people I know (e.g. video	someone might use technology to communicate with others they don't also know offline and explain why this might be risky. (e.g. email, online gaming, a pen- pal in another school / country) I can explain who I should	people who have similar likes and interests can get together online. I can explain what it means to 'know someone' online and why this might be different from knowing someone offline.	for safe and fun experiences in a range of online social environments (e.g. livestreaming, gaming platforms). I can give examples of how to be respectful to others online and describe how to recognise healthy and	technology-specific forms of communication (e.g. emojis, memes and GIFs). I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognise that this is not	something online may have an impact either positively or negatively. I can describe how to be kind and show respect for others online including the importance of respecting boundaries regarding what is shared
	people i know.	call apps or services).	ask before sharing things	someone omine.	recognise nearing and	my/our fault.	about them online and



					07		
		I can explain why it is	about myself or others	I can explain what is	unhealthy online	I can describe some of the	how to support them if
		important to be	online.	meant by 'trusting	behaviours.	ways people may be	others do not.
		considerate and kind to	I can describe different ways	someone online', why	I can explain how content	involved in online	I can describe how things
		people online and to	to ask for, give, or deny my	this is different from	shared online may feel	communities and describe	shared privately online
		respect their choices.	permission online and can	'liking someone online',	unimportant to one person	how they might	can have unintended
		I can explain why things	identify who can help me if I	and why it is important	but may be important to	collaborate constructively	consequences for others.
		one person finds funny	am not sure.	to be careful about who	other people's thoughts,	with others and make	e.g. screen-grabs.
		or sad online may not	I can explain why I have a	to trust online including	feelings and beliefs.	positive contributions.	I can explain that taking or
		always be seen in the	right to say 'no' or 'I will	what information and		(e.g. gaming communities	sharing inappropriate
		same way by others.	have to ask someone'. I can	content they are trusted		or social media groups).	images of someone (e.g.
			explain who can help me if I	with.		I can explain how someone	embarrassing images),
			feel under pressure to agree	I can explain why		can get help if they are	even if they say it is okay,
			to something I am unsure	someone may change		having problems and	may have an impact for
			about or don't want to do.	their mind about trusting		identify when to tell a	the sharer and others; and
			I can identify who can help	anyone with something		trusted adult.	who can help if someone
			me if something happens	if they feel nervous,		I can demonstrate how to	is worried about this.
			online without my consent.	uncomfortable or		support others (including	
			I can explain how it may	worried.		those who are having	
			make others feel if I do not	I can explain how		difficulties) online.	
			ask their permission or	someone's feelings can			
			ignore their answers before	be hurt by what is said or			
			sharing something about	written online.			
			them online.	I can explain the			
			I can explain why I should	importance of giving and			
			always ask a trusted adult	gaining permission			
			before clicking 'yes', 'agree'	before sharing things			
			or 'accept' online.	online; how the			
				principles of sharing			
				online is the same as			
				sharing offline e.g.			
				sharing images and			
				videos.			
				Online Reputation			
a)	I can identify ways	I can recognise that	I can explain how	I can explain how to	I can describe how to find	I can search for	I can explain the ways in
dge	that I can put	information can stay	information put online about	search for information	out information about	information about an	which anyone can develop
Skills /Knowledge	information on the	online and could be	someone can last for a long	about others online.	others by searching online.	individual online and	a positive online
٥	internet.	copied.	time.	I can give examples of	I can explain ways that	summarise the	reputation.
×		I can describe what	I can describe how anyone's	what anyone may or may	some of the information	information found.	I can explain strategies
ls /		information I should not	online information could be	not be willing to share	about anyone online could	I can describe ways that	anyone can use to protect
Skil		put online without asking	seen by others.	about themselves online.	have been created, copied	information about anyone	their 'digital personality'
J,		a trusted adult first.			or shared by others.	online can be used by	and online reputation,



			I know who to talk to if	I can explain the need to		others to make judgments	including degrees of
			something has been put	be careful before sharing		about an individual and	anonymity.
			online without consent or if	anything personal.		why these may be	
			it is incorrect.	I can explain who		incorrect.	
				someone can ask if they			
				are unsure about putting			
				something online.			
				Online Bullving			
			1	Online Bullying		I	
	I can describe ways	I can describe how to	I can explain what bullying is,	I can describe	I can recognise when	I can recognise online	I can describe how to
	that some people can	behave online in ways	how people may bully others	appropriate ways to	someone is upset, hurt or	bullying can be different to	capture bullying content
	be unkind online.	that do not upset others	and how bullying can make	behave towards other	angry online.	bullying in the physical	as evidence (e.g screen-
	l ann affan awarania	and can give examples	someone feel.	people online and why	I can describe ways people	world and can describe	grab, URL, profile) to
	I can offer examples of how this can make		I can explain why anyone	this is important.	can be bullied through a	some of those differences.	share with others who can
	others feel.		who experiences bullying is	I can give examples of	range of media (e.g. image,	I can describe how what	help me.
	others reel.		not to blame.	how bullying behaviour	video, text, chat).	one person perceives as	I can explain how
			I can talk about how anyone	could appear online and	I can explain why people	playful joking and teasing	someone would report
			experiencing bullying can get	how someone can get	need to think carefully	(including 'banter') might	online bullying in different
			help.	support.	about how content they	be experienced by others	contexts.
					post might affect others,	as bullying.	
ge					their feelings and how it	I can explain how anyone	
<u> </u>					may affect how others feel	can get help if they are	
Skills /Knowledge					about them (their	being bullied online and	
조					reputation).	identify when to tell a	
/s						trusted adult.	
Ξ						I can identify a range of	
0,						ways to report concerns and access support both in	
						school and at home about	
						online bullying.	
						I can explain how to block	
						abusive users. I can	
						describe the helpline	
						services which can help	
						people experiencing	
						bullying, and how to	
						access them (e.g. Childline	
						or The Mix).	
			D.d.s	naging Online Inform	mation	OF THE WIINJ.	
			IVI	anaging Online Inforn	nation		





I can talk about how to use the internet as a way of finding information online.

I can identify devices I could use to access information on the internet.

Skills /Knowledge

I can give simple
examples of how to find
information using digital
technologies, e.g. search
engines, voice activated
searching).
I know / understand that
we can encounter a

we can encounter a range of things online including things we like and don't like as well as things which are real or make believe / a joke. I know how to get help from a trusted adult if we see content that makes

us feel sad,

uncomfortable worried

or frightened.

I can use simple keywords in search engines.

can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections).

I can explain what voice activated searching is and how it might be used, and know it is not a real person (e.g. Alexa, Google Now, Siri).

can explain the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'. I can explain why some information I find online may not be real or true. I can demonstrate how to use key phrases in search engines to gather accurate information online.

I can explain what autocomplete is and how to choose the best suggestion.

I can explain how the

internet can be used to sell and buy things.
I can explain the difference between a 'belief', an 'opinion' and a 'fact. and can give examples of how and where they might be shared online, e.g. in videos, memes, posts, news stories etc.
I can explain that not all opinions shared may be accepted as true or fair by others (e.g. monsters

under the bed).

I can describe and

demonstrate how we

can get help from a

trusted adult if we see

content that makes us

feel sad, uncomfortable,

worried or frightened.

I can analyse information to make a judgement about probable accuracy and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others.

I can describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy (e.g. social media, image sites, video sites). I can describe some of the

I can describe some of the methods used to encourage people to buy things online (e.g. advertising offers; in-app purchases, pop-ups) and can recognise some of these when they appear online.

online.
I can explain why lots of people sharing the same opinions or beliefs online do not make those opinions or beliefs true.
I can explain that technology can be designed to act like or impersonate living things (e.g. bots) and describe what the benefits and the risks might be.

I can explain what is meant

by fake news e.g. why

some people will create

stories or alter

and limitations of using different types of search technologies e.g. voiceactivation search engine. I can explain how some technology can limit the information I aim presented with e.g. voiceactivated searching giving one result. I can explain what is meant by 'being sceptical': I can give examples of when and why it is important to be 'sceptical'. I can evaluate digital content and can explain how to make choices about what is trustworthy e.g. differentiating between adverts and search results. I can explain key concepts including: information, reviews, fact, opinion, belief, validity, reliability and evidence. I can identify ways the internet can draw us to information for different agendas, e.g. website notifications, pop-ups, targeted ads.

I can describe ways of

identifying when online

content has been

commercially sponsored or

boosted, (e.g. by

commercial companies or

by vloggers, content

creators, influencers).

I can explain the benefits

I can explain how search engines work and how results are selected and ranked. I can explain how to use search technologies effectively. I can describe how some

effectively.
I can describe how some online information can be opinion and can offer examples.

I can explain how and why some people may present 'opinions' as 'facts'; why the popularity of an opinion or the personalities of those promoting it does not necessarily make it true, fair or perhaps even legal. I can define the terms 'influence', 'manipulation' and 'persuasion' and explain how someone might encounter these online (e.g. advertising and 'ad targeting' and targeting for fake news). I understand the concept of persuasive design and how it can be used to influences peoples' choices.

I can demonstrate how to analyse and evaluate the validity of 'facts' and information and I can explain why using these strategies are important. I can explain how companies and news providers target people



					photographs and put them online to pretend	I can explain what is meant by the term 'stereotype',	with online news stories they are more likely to
					something is true when it	how 'stereotypes' are	engage with and how to
					isn't.	amplified and reinforced	recognise this.
						online, and why accepting	I can describe the
						'stereotypes' may	difference between online
						influence how people	misinformation and dis-
						think about others. I can	information.
						describe how fake news	I can explain why
						may affect someone's	information that is on a
						emotions and behaviour,	large number of sites may
						and explain why this may	still be inaccurate or
						be harmful.	untrue. I can assess how
						I can explain what is meant	this might happen (e.g.
						by a 'hoax'. I can explain	the sharing of misinformation or
						why someone would need to think carefully before	disinformation).
						they share.	I can identify, flag and
						tiley silare.	report inappropriate
							content.
			Неа	Ith, Well-being and L	ifestyle		content.
	I can identify rules	I can explain rules to	I can explain simple guidance	I can explain why	I can explain how using	I can describe ways	I can describe common
	that help keep us	keep myself safe when	for using technology in	spending too much time	technology can be a	technology can affect	systems that regulate age-
	safe and healthy in	using technology both in	different environments and	using technology can	distraction from other	health and well-being both	related content (e.g. PEGI,
	and beyond the	and beyond the home.	settings e.g. accessing online	sometimes have a	things, in both a positive	positively (e.g. mindfulness	BBFC, parental warnings)
	home when using		technologies in public places	negative impact on	and negative way.	apps) and negatively.	and describe their
	technology		and the home environment.	anyone, e.g. mood,	I can identify times or	I can describe some	purpose.
a)			I can say how those rules /	sleep, body,	situations when someone	strategies, tips or advice to	I recognise and can
dge	I can give some		guides can help anyone	relationships; I can give	may need to limit the	promote health and	discuss the pressures that
<u>e</u>	simple examples of		accessing online	some examples of both	amount of time they use	wellbeing with regards to	technology can place on
Skills /Knowledge	these rules.		technologies.	positive and negative	technology e.g. I can	technology.	someone and how / when
×				activities where it is easy	suggest strategies to help	I recognise the benefits	they could manage this.
SII.				to spend a lot of time	with limiting this time.	and risks of accessing	I can recognise features of
S				engaged (e.g. doing		information about health	persuasive design and
				homework, games, films,		and well-being online and	how they are used to
				videos). I can explain why some		how we should balance this with talking to trusted	keep users engaged (current and future use).
				online activities have age		adults and professionals.	I can assess and action
				restrictions, why it is		I can explain how and why	different strategies to
				important to follow		some apps and games may	limit the impact of
				them and know who I		request or take payment	technology on health (e.g.
						. I quest of take payment	in the state of th



				can talk to if others		for additional content (e.g.	night-shift mode, regular		
				pressure me to watch or		in-app purchases, loot	breaks, correct posture,		
				do something online that		boxes) and explain the	sleep, diet and exercise).		
				makes me feel		importance of seeking			
				uncomfortable (e.g. age		permission from a trusted			
				restricted gaming or web		adult before purchasing.			
				sites).					
		Privacy and Security							
	I can identify some	I can explain that	can explain how passwords	I can describe simple	I can describe strategies	I can explain what a strong	I can describe effective		
	simple examples of	passwords are used to	can be used to protect	strategies for creating	for keeping personal	password is and	ways people can manage		
	my personal	protect information,	information, accounts and	and keeping passwords	information private,	demonstrate how to	passwords (e.g. storing		
	information (e.g.	accounts and devices.	devices.	private.	depending on context.	create one.	them securely or saving		
	name, address,	I can recognise more	I can explain and give	I can give reasons why	I can explain that internet	I can explain how many	them in the browser).		
	birthday, age,	detailed examples of	examples of what is meant	someone should only	use is never fully private	free apps or services may	I can explain what to do if		
	location).	information that is	by 'private' and 'keeping	share information with	and is monitored, e.g.	read and share private	a password is shared, lost		
		personal to someone (e.g	things private'.	people they choose to	adult supervision.	information (e.g. friends,	or stolen.		
	I can describe who	where someone lives and	I can describe and explain	and can trust.	I can describe how some	contacts, likes, images,	I can describe how and		
	would be trustworthy	goes to school, family	some rules for keeping	I can explain that if they	online services may seek	videos, voice, messages,	why people should keep		
	to share this	names).	personal information private	are not sure or feel	consent to store	geolocation) with others.	their software and apps		
	information with; I	I can explain why it is	(e.g. creating and protecting	pressured then they	information about me; I	I can explain what app	up to date, e.g. auto		
	can explain why they	important to always ask	passwords).	should tell a trusted	know how to respond	permissions are and can	updates.		
	are trusted.	a trusted adult before	I can explain how some	adult.	appropriately and who I	give some examples.	I can describe simple ways		
		sharing any personal	people may have devices in	I can describe how	can ask if I am not sure.		to increase privacy on		
		information online,	their homes connected to	connected devices can	I know what the digital age		apps and services that		
		belonging to myself or	the internet and give	collect and share	of consent is and the		provide privacy settings.		
		others.	examples (e.g. lights, fridges,	anyone's information	impact this has on online		I can describe ways in		
			toys, televisions).	with others.	services asking for		which some online		
					consent.		content targets people to		
							gain money or		
a \							information illegally; I can		
ge							describe strategies to help		
l je							me identify such content		
Skills /Knowledge							(e.g. scams, phishing).		
Ϋ́							I know that online		
/ s							services have terms and		
							conditions that govern		
5							their use.		
				Copyright and Owner	ship				



	I know that work I	I can explain why work I	I can recognise that content	I can explain why	When searching on the	I can assess and justify	I can demonstrate the use
Skills /Knowledge	create belongs to me.	create using technology	on the internet may belong	copying someone else's	internet for content to use,	when it is acceptable to	of search tools to find and
		belongs to me.	to other people.	work from the internet	I can explain why I need to	use the work of others.	access online content
	I can name my work	can say why it belongs to	I can describe why other	without permission isn't	consider who owns it and	I can give examples of	which can be reused by
	so that others know	me (e.g. 'I designed it' or	people's work belongs to	fair and can explain what	whether I have the right to	content that is permitted	others.
	it belongs to me.	'I filmed it'').	them.	problems this might	reuse it.	to be reused and know	I can demonstrate how to
		can save my work under		cause.	I can give some simple	how this content can be	make references to and
		a suitable title / name so			examples of content which	found online.	acknowledge sources I
		that others know it			I must not use without		have used from the
		belongs to me (e.g.			permission from the		internet.
		filename, name on			owner, e.g. videos, music,		
		content).			images.		
		I understand that work					
		created by others does					
		not belong to me even if					
		I save a copy					