High View Primary Learning Centre

Computing Curriculum





Intent

Computing High View Primary Learning Centre intends to develop 'thinkers of the future' through a modern, ambitious and relevant education in computing. We want to equip pupils to use computational thinking and creativity that will enable them to become active participants in the digital world. It is important to us that the children understand how to use the ever-changing technology to express themselves, as tools for learning and as a means to drive their generation forward into the future. Whilst ensuring they understand the advantages and disadvantages associated with online experiences, we want children to develop as respectful, responsible and confident users of technology, aware of measures that can be taken to keep themselves and others safe online. Our aim is to provide a computing curriculum that is designed to balance acquiring a broad and deep knowledge alongside opportunities to apply skills in various digital contexts. Beyond teaching computing discreetly, we will give pupils the opportunity to apply and develop what they have learnt across wider learning in the curriculum.

<u>Implementation</u>

Our scheme of work for Computing is delivered on through the use of NCCE Curriculum and covers all aspects of the National Curriculum. This scheme was chosen as it has been created by subject experts and based on the latest pedagogical research. It provides an innovative progression framework where computing content (concepts, knowledge, skills and objectives) has been organised into interconnected networks called learning graphs. The curriculum aims to equip young people with the knowledge, skills and understanding they need to thrive in the digital world of today and the future. The curriculum can be broken down into 3 strands: computer science, information technology and digital literacy, with the aims of the curriculum reflecting this distinction.

The national curriculum for computing aims to ensure all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation (Computer science)
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems (Computer science)
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems (Information technology)
- are responsible, competent, confident and creative users of information and communication technology. (Digital literacy)

Digital Literacy is the ability and skill to find, evaluate, utilise, share, and create content using information technologies and the Internet

Computer science is the study of computers and computational systems.

Information technology is the study or use of systems (especially computers and telecommunications) for storing, retrieving, and sending information.

			Ov	erview of Topics			
	EYFS	Year I	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	Digital Literacy Computational thinking Super space 'Awesome Autumn'	I. Computing Systems & Networks - Technology around us. 2. Digital Painting (links to artists/Art Cross Curricular)	I. Computing Systems & Networks - IT around 2. Digital Photography	I. Computing Systems & Networks - Connecting Computers. 2. Creating Media - Stop Frame Animation.	I. Computing Systems & Networks - The Internet 2. Creating Media - audio production	I. Computing Systems & Networks - Systems and searching 2. Creating media - Video production	I. Computing Systems & Networks - Communication and collaboration. 2. Creating Media - webpage creation.
Spring	Computer Science Computational thinking 'Winter warmers' 'Boats ahoy'	3. Programming A - Moving a Robot. 4. Data & Information - Grouping Data	3. Programming A - Moving a Robot. 4. Data & Information - Pictograms	3. Programming A - Sequencing Sounds 4. Data & Information - Branching databases	3. Programming A - Repetition in shapes. 4. Data & Information - Data Logging	3. Programming A - Selection in physical computer. 4. Data & Information - Flat file databases	 3. Programming A – Variables in games. 4. Data & Information – Introduction to spreadsheets.
Summer	Information Technology Computational thinking Springtime Summer fun	5. Creating Media (digital writing 6. Programming B - Programming animations	5. Creating Media - digital music 6. Programming B - Programming Quizzes	5. Creating Media – Desktop Publishing 6. Programming B – Events and actions in programs	5. Creating Media – Photo editing. 6. Programming B – Repetition in games.	5. Creating Media - Introduction to Vectographics 6. Programming B - Selection in quizzes.	5. Creating Media - 3D Modellings 6. Programming B - Sensing Movement.

Progression of knowledge breakdown of 3 pillars of computing

		NC Objective	Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		NC Objective	Touridation Stage	Tear 1	Teur Z	Teur 3	Teur 4	Teur 5	Teur O
		Key stage 1	Understanding the	Technology around us	Information technology	Connecting computers	The Internet	Sharing information	Communication
		Use technology purposefully	World		around us				
		to create, organise, store,		To know how to identify		To know how to	To know how to	To know how to explain	To know how to identify
		manipulate and retrieve	To know how to	technology that comes in	To know how to	explain how digital	describe how networks	that computers can be	how to use a search
		digital content	operate simple	different forms-	recognise the uses and	devices function – to	physically connect to	connected together to	engine – that this is a
		December of the second	equipment	computers, mobile	features of information –	know that they have an	other networks – using	form systems	webpage where key
		Recognise common uses of information technology	To show an interest in	phones, cars, bikes.	What information technology means.	input, process and output.	a router which connects all different	To know how to	words will be typed into the search bar.
		beyond school	technological toys with	To know how to identify a	Features of information	output.	devices together.	recognise the role of	the scarch bar.
			knobs and pulleys, or	computer and its main	provide details and	To know how to		computer systems in	To know how to describe
		Key stage 2	real objects	parts – screen, mouse,	provide a use.	identify input and	To know how to	our lives – house hold	how search engines,
		Understand computer		tower, keyboard.		output devices – Input	recognise how	appliances,	select results – to know
		networks including the	To show skill in making		To know how to identify	is something that	networked devices	entertainment and	this uses a program which
		internet; how they can	toys work by pressing	To know how to use a	information technology	sends a message to a	make up the internet -	safety.	is called crawler. This
		provide multiple services, such as the world wide web;	parts or lifting flaps to achieve effects such as	mouse in different ways –	in the home – Internet,	device. Output is	the internet is a network of networks	To know how to	uses the key words that have been typed into the
		and the opportunities they	sound, movements or	click and drag, left button to select and twice	games consoles, cooking appliances.	something that is sent out by the device	that are all connected	recognise how	search bar.
		offer for communication and	new images	quickly to open files and	арриансез.	out by the device	together.	information is	Scarcii bai.
	٠. بې	collaboration		programs. Right click to	To know how to identify	To know how to		transferred over the	To know how to explain
gg	orks		To know that	give us options. Holding	technology beyond	recognise how digital	To know how to	internet through the	how search results are
Technology	et 📗	Use search technologies	information can be	the left button down	school. This would	devices can change the	outline how websites	use of IP addresses,	ranked – results are
chn	ğ	effectively, appreciate how	retrieved from	allows us to drag things.	include traffic lights, tills	way we work –	can be shared via the	protcols and packets.	ranked by using
Te	an	results are selected and	computers	To loo soo beaute	and scanners within	allowing us to send and	World Wide Web –	All of which contain	algorithms which then
Information	sma	ranked, and be discerning in evaluating digital content	To interact with age-	To know how to use a keyboard to type	summer markets, use of communication i.e email.	share information quickly and easily.	found using a web address to lead to web	information.	gives a score to each page. This is all linked to
nat	syste	evaluating digital content	appropriate computer	Reyboard to type	communication i.e email.	quickly and easily.	pages which then	To know how to explain	the key words and
forr	. S 8		software	To know how to use the	To know how to explain	To know how to	shares further	how sharing	specifics typed into the
급,	Computing			keyboard to edit text	how information	explain how a	information.	information online lets	search bar.
	m p		To recognise that a		technology benefits us.	computer network can		people in different	
			range of technology is	To know how to create	To make things quick and	be used to share	To know how to	places work together	To know how to
	1)		used in places such as	rules for using technology	easier i.e with self	information – using the	describe how the	To know how to	recognise why the order
			homes and schools	responsibly.	scanners in the supermarket.	internet and data.	is created by people –	To know how to contribute to a shared	of results is important, and to whom – the order
			To select and use		Help us stay safe – traffic	To know how to	the information is	project online knowing	is important to ensure
			technology for		lights.	explore how digital	called content. It	this is called	key information is shared
			particular purposes		Communicate – emails,	devices can be	belongs to people or	collaboration. How	with a wide range of
					texts and social media	connected – through	companies.	working as a team is	people. It is important to
					apps.	fixed cables, data, wifi		important and taking	users for them to gain
						or and internal	To know how to	responsibilities of	information quickly and
					To know how to show	intranet.	evaluate the	different roles.	webpage designers to
					how to use information technology safely. The	To recognise the	consequences of unreliable content –	To know how to	ensure returns of users.
					key rules to focus on are:	physical components	expressing that this	evaluate different ways	To know how to
					-Ensuring games and	of a network – network	maybe due to people	of working together	recognise how we
					apps are age	, switch, server,	misunderstanding or	online- the use of the	communicate using
					appropriate.	wireless bn access	lying.	internet to complete	technology – completed
					-Always sit when using a	point.		this and how. Using a	through public and
					device to ensure it isn't			chat function to share	private communication ie
					broken.				with all or some people.

			-Don't use devices at social times. i.e meal timesstick to technology at agreed times. To know how to recognise the choices are made when using information technology. Choosing what is interacted with ie websites and apps. That can be used for good but also can have negative effects if choices or negative.			information in real time. Cloud spaces to store and share information with easy access.	One way communication where information is just given (youtube) or two way (zoom and skype). To know how to evaluate different methods of online communication — this needs to be done based on what you are needing to communicate and why, how safe you can communicate this information and how private the information can be shared i.e encrypted or secure emails.
Computing systems and network Vocabulary	On, off, technology. Press, lift, push, pull, mouse, screen, keyboard, camera, QR codes	Technology, Man-made, digital, screen, mouse, keyboard, program, click/drag, cursor	Information Technology, computer, device, barcode, scanner, communication, entertainment, appliances, signal, esafety	Digital device, Input, process, output, connection, network, network switch, server, WAP, E-safety	Network, internet, world wide web, Router, Security, website, webpage, browser, domain, reliable	System, Input, process, output, protocol, ipput address, packet, reuse, explore, collaboration	Internet, world wide web, search engine, browser, keyword, google, Tim Berners-Lee, Ranking, crawlers, Algorithm

		Key Stage 1	Delivery of same content	Grouping data	Pictograms	Branching databases	Data logging	Flat- file database	Spreadsheets
		use technology purposefully	shown in table above.	To know how to be able	To know how to	know how to	To know how to	To know how to use a	To know how to identify
		to create, organise, store,	Shown in table above.	to label objects either	recognise that we can	Kilow how to	explain that data	form to record	questions which can be
		manipulate and retrieve		with their name or	count and compare	To know how to	gathered over time can	information	answered using data
		digital content		describing their	objects using tally charts.	identify the object	be used to answer	Information	answered using data
		digital content		properties.	objects using tany charts.	attributes needed to	questions	To know how to	To know how to explain
		Key stage 2		properties.	To know how to	collect relevant data.	questions	compare paper and	that objects can be
		select, use and combine a		To know how to identify	recognise that objects	Knowing what is in	To know how to use a	computer-based	described using data
		variety of software (including		that objects can be	can be represented as	similar and what is	digital device to collect	databases	described using data
		internet services) on a range		counted. That computers		different.		uatabases	To know how to explain
		of digital devices to design		can count amounts in	pictures	different.	data automatically	To know how to outline	that formula can be used
		and create a range of			To know how to create a	To know how to create	To know how to		
				each group.			explain that a data	how grouping and then	to produce calculated
		programs, systems and		To know how to describe	pictograms, using the	a branching database	· ·	sorting data allows us	data
		content that accomplish		objects in different ways,	correct symbols.	To know how to	logger collects 'data points' from sensors	to answer questions. Related to categories	To know how to apply
		given goals, including		what are there	To longue have to coloct		•		To know how to apply
		collecting, analysing,			To know how to select	identify objects using a	over time	i.e colour, age. This then filters out	formulas to data,
		evaluating and presenting		properties/ features.	objects by attribute and	branching database	To be our hours to use	unrelated data to the	including duplicating.
		data and information		To lynous bossets count	make comparisons	To be out hours	To know how to use		Developing a knowledge
				To know how to count	To longue have to	To know how to	data collected over a	question.	of the symbols which
Technology	and Information			objects with the same	To know how to	explain why it is helpful	longer durations to	To loo ooo b ooo to ooo lais	relate to mathematical
Jos	ıati			properties, what makes	recognise that people	for a database to be	find information. To	To know how to explain	operations. How it can
- Sr	r			them similar i.e colour,	can be described by	well structured. To	develop the knowledge	that tools can be used	help support calculate
Te	nfc			shape, amount.	attributes and what this	know that for it to be	that this can provide a	to select specific data –	large amounts of data
น	힏			T- 1	means.	effective the questions	more detailed picture	search, filter and sort	and create multiple
Information	a			To know how to compare		being asked will help	of information they	functions buttons or	copies of this using short
Ĭ Ë	ate			groups of objects . Being	To know how to explain	separate the different	want to gain.	options on mouse	cut keys.
γfo	2)Data			able to compare if things	that we can present	data based on their	Ta los son la son ka	menu.	To loo 200 h 200 h 2
ΙŪ	.,			are similar or different.	information using a	attributes.	To know how to	Ta los acordas acordas a	To know how to create a
				T. I	computer and that this	T. I I	identify the data	To know how to explain	spreadsheet to plan an
				To know how to answer	can be presented in	To know how to	needed to answer	that computer	event. Using it to
				questions about groups	different ways.	compare the	questions. To	programs can be used	compare resources and
				of objects. Using groups		information shown in a	recognise the question	to compare data	costings to explore
				to compare the data i.e		pictogram with a	they want to answer	visually. To know this	expenditure.
				round and not round.		branching database.	and how does the data	can be presented in	
							help you do this.	graphs or charts to help	To know how to choose
								find answers quickly	suitable ways to present
								and easily.	data to allow ease of
									reading and presentation.
								To know how to apply	
								my knowledge of a	
								database to ask and	
								answer real-world	
								questions. Relating this	
								to how they are used	
								currently in different	
								environments. Linking	
								this to school registers.	

Data and Information vocabulary	Delivery of same content	Information, data, search,	Information, data,	Information, data,	Information, data,	Information, data,	Information, data,
	shown in table above.	label, group, describe,	pictogram, group, tally,	attributes, group,	collection, sensor,	collection, database,	spreadsheet, format,
		program, properties,	tally chart, program,	branching, database,	logging, analysis, data	search, sort, filter,	formula, accounting,
		similar, different	properties, present,	multiple, classify,	logger, software,	software, fields,	filter, software, tax,
			problem	structure, present	interpret, conclusion	records	business

		NC Objective	Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<u> </u>	1	•	1 ourtuation stage						
		Key stage 1		Moving a robot	Robot Algorithms	Sequence in music	Repetition in shapes	Selection in physical	Variables in games
		understand what		To explain what a given	To describe a series of	To explore a new	To identify that	computing	To define a variable as
		algorithms are; how they		command will do.	instructions as a	programming	accuracy in	To control a simple	something that is
		are implemented as		Knowing a command is	sequence	environment through	programming is	circuit connected to a	changeable
		programs on digital		the instruction they are	To combain or hot have a con-	the use of scratch.	important, what	computer	Ta amalain mhu a
		devices; and that		asking the robot to	To explain what happens	Developing knowledge	happens if this isn't the	T	To explain why a
		programs execute by		complete.	when we change the	of what the different	case by exploring	To write a program	variable is used in a
		following precise and		To get out a given word	order of instructions. How this will effect the	functions are and what it is used for.	mistakes.	that includes count-	program, what its
		unambiguous		To act out a given word		it is used for.	To create a program in	controlled loops	purpose is and why this is needed.
		instructions		related to programming.	performance and it will	To identify that each	To create a program in	To ovalain that a loon	this is needed.
		Vov. store 2		Recognising forward,	only the process that has	To identify that each	a text-based language,	To explain that a loop	To shoose how to
		Key stage 2		backwards, left and right to be able to relate this to	been inputted.	sprite is controlled by the commands I	mean that the program is where commands	can stop when a condition is met a	To choose how to
		use sequence, selection, and repetition in		when the robot moves.	To use logical reasoning			number of times	improve a game by using variables. Being
		programs; work with		when the robot moves.	to predict the outcome	choose	are typed and converted into	number of times	able to explain why it
		variables and various		To combine forwards and	of a program (series of	To explain that a	drawings.	To conclude that a	requires improvement,
		forms of input and		backwards commands to	commands)	program has a start	urawings.	loop can be used to	and how does it make
o l		output		make a sequence	Commands	and how they know it	To explain what	repeatedly check	it better.
วนอ	⋖	output		make a sequence	To explain that	has started, with what	'repeat' means.	whether a condition	it better.
Science	ning	use logical reasoning to		To plan a simple program	programming projects	will happen and be	Knowing this means	has been met	To design a project
	E	explain how some simple		To plan a simple program	can have code and	seen.	that the action or	nas been met	that builds on a given
Computer	ran	algorithms work and to		To find more than one	artwork	Scen.	request will happen	To design a physical	example. Being able to
ਰੂ	Prog	detect and correct errors		solution to a problem.	diework	To recognise that a	again.	project that includes	use prior knowledge to
ပိ	1) Pi	in algorithms and		Knowing that	To design an algorithm.	sequence of	ugum.	selection	recognise things can
	1	programs		programming will only	To know that there is a	commands can have an	To modify a count-	5616611011	always be improved.
		p. 98. a		follow what has been	set amount of	order	controlled loop to	To create a	aa,a aap. aaa.
				inputted and this may	information to input and		produce a given	controllable system	To use my design to
				require changing to	to follow a process of	To change the	outcome. Using	that includes selection	create a project based
				overcome obstacles.	steps to complete this.	appearance of my	knowledge that they		on a given brief to be
					The state of the s	project. This will be	can request something		able to work within
					To create and debug a	done by using various	happens a certain		given parameters to
					program that I have	tools and options	number of times to		aid focus.
					written. Using	within the program.	help get to the end		
					knowledge of what		result.		To evaluate my
					debugging means and	To create a project			project, recognising
					how to follow the	from a task	To decompose a		positives and areas for
					process of creation.	description. This will	program into parts.		improvement.
						mean they can follow a	Developing their		
						process from start to	understanding that this		
						finish using the correct	means breaking it		
						algorithms and adapt	down into smaller		
							elements which when		

			and change to overcome barriers.	put together creates the end outcome.		
Programming A Vocabulary	Programmed, robot, algorithm, button, direction, forward, backward, left, right, route	Program, robot, algorithm, direction, route, obstacle, design, error, chunking, debugging.	Programming, scratch, blocks, commands, code, sprite, stage, costume, backdrop, debugging.	Programming, logo, turtle, commands, code, cursor, algorithm, pattern, sequence, debugging.	Programming, circuit, electricity, microcontroller, code, LED, Algorithm, Motor, modify, debugging.	Programming, variable, scratch, events, code, LED, algorithm, motor, modify, debugging

			I.,				Description 1	Caladia	6
		Key stage 1		troduction to animation	Introduction to quizzes	Events and actions	Repetition in games	Selection in games	Sensing
		understand what		choose a command for	To explain that a	To explain how a sprite	To develop the use of	To explain how	To create a program to
		algorithms are; how they		given purpose. Being	sequence of commands	moves in an existing	count-controlled loops	selection is used in	run a controllable
		are implemented as		ole to pick a function that	has a start	project	in a different	computer programs.	device, meaning that
		programs on digital		ey would like to occur			programming	Knowing that different	this can be done
		devices; and that		d complete this task	To explain that a	To create a program to	environment	conditions can create	externally by a remote
		programs execute by		ing the correct tool or	sequence of commands	move a sprite in four		different outcomes	control using a control
		following precise and	but	itton.	has an outcome	directions	To explain that in	based on the different	pad and a receiving
		unambiguous	_				programming there are	actions and	sensor. I.e TV remote
		instructions		show that a series of	To create a program	To adapt a program to	infinite loops and	commands.	
				mmands can be joined	using a given design	a new context.	count controlled loops.		To explain that
		Key stage 2	tog	gether		Knowing that the same	That an infinite loop	To relate that a	selection can control
		use sequence, selection,	.	tale after the after the	To change a given design	format can not be used	will mean it continues	conditional statement	the flow of a program
		and repetition in		identify the effect of	-	if the desired outcome	until a human stops it	connects a condition	To add to a second
		programs; work with		anging a value.	To create a program	is different. This will	compared to a count	to an outcome	To update a variable
		variables and various		eveloping knowledge	using my own design	result in it requiring a	controlled loop that	Ta amalain kann	with a user input
		forms of input and		at the value relates to	Ta dasida hawana	change of input to get	they will place a value	To explain how	To was an associational
	В	output		e amount of times or	To decide how my	a different output.	into the program to	selection directs the	To use an conditional
	ng	was lanias massauina ta		ow many commands this	project can be improved.	To dovalou mov	complete X amount of	flow of a program. The	statement to compare
	Ē	use logical reasoning to	WII	ill complete.		To develop my	times.	selection of a	a variable to a value.
မွ	2)Programming	explain how some simple algorithms work and to	To	ovalain that each sarita		program by adding features. Knowing that	To develop a design	command or an action	The conditional
enc	ogr	detect and correct errors		explain that each sprite is its own instructions		a feature will allow the	which includes two or	then directs the outcome that will	statement will give the variable parameters of
Science	Pr	in algorithms and		r which the animation		program to perform a	more loops which run	happen during the	which it can work to
er	2	programs		ill follow.		different action. This	at the same time	program.	allow a degree of
Computer		programs	WII	iii ioliow.		will then change the	at the same time	program.	flexibility whilst being
ш			To	design the parts of a		process the program	To modify an infinite	To design a program	in control.
ပိ				oject following the		will follow.	loop in a given	which uses selection	in control.
				ocess of commands.		Will follow:	program. Knowing that	Willelf uses selection	To design a project
			P. C			To identify and fix bugs	input is required to	To create a program	that uses inputs and
			То	use my algorithm to		in a program. Whilst	end the loop.	which uses selection	outputs on a
				eate a program		understanding a bug is			controllable device
						a problem within the	To design a project	To evaluate my	
						program and how to	that includes	program, expressing	To develop a program
						overcome this.	repetition, using a	what went well and	to use inputs and
							thought process of the	what is required to be	outputs on a
						To design and crate a	actions that can be	improved.	controllable device.
						maze-based challenge	used within this.		
							To create a project that		
							includes repetition of a		
							certain action.		
	Pro	gramming B vocabulary	Pro	ogramming, scratch jr,	Programming, scratch jr,	Programming, scratch,	Programming, scratch,	Programming, scratch,	Programming, mirco
			spr	rite, home, command,	sprite, quiz, command,	blocks, commands,	blocks, commands,	logical, commands,	bit, LED, sensor,
				ock, stage, background,	block, debugging,	code, events, motion,	code, events, motion,	algorithm, condition,	random, condition,
			alg	gorithm, app	sequence, algorithm,	sequence, trialling,	sequence, trialling,	selection, sequence,	accelerometer,
					outcome	debugging.	debugging.	trialling, debugging.	sequence, emulator,
									motion.

	NC Objective	Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Key stage 1	Touridation Stage		Digital Photography		Audio editing	Vector Drawing	
	Use technology safely and		Digital painting To describe what	To know what devices can	Desktop publishing To recognise how text	To identify that sound	To identify that drawing	Web Page creation To review an existing website
	respectfully, keeping		difference freehand tools	be used to take	and images convey	can be digitally	tools can be used to	and consider its structure.
	personal information private;		do. Freehand meaning	photographs- camera's,	information. Through	recorded – what these	produce different	What is is made up from –
	identify where to go for help		what they use practically	phones, tablets	different uses – posters,	means in terms of being	outcomes.	text boxes, images, layout,
	and support when they have		during everyday	priories, tablets	flyers and booklets	recorded onto a device.	outcomes.	title.
	concerns about content or		experiences – paintbrush,	To use a digital device to	sharing information		To create a vector	
	contact on the internet or		pen or pencil.	take a photograph, to point	through writing and	To use a digital device	drawing by combining	To plan the feature of a web
	other online technologies.		power powers	the camera in the correct	images of the topic.	to record sound – what	shapes, stating what	page – knowing that a feature
	5		To use the shape tool and	direction and know the		is the device	these shapes are and how	is what the web page is about.
	Recognise common uses of		the line tools and recognise	object of the picture is	To recognise that text	smartphone, tablet or	to combine them.	The focus of the page –
	information technology		the buttons that replicate	within the frame.	and layout can be	computer.		shopping, technology.
	beyond school		these.		edited to show the		To use tools to achieve a	., .
				To describe what makes a	appearance of the	To explain that a digital	desired effect – snip,	To consider the ownership
	Key stage 2		To make careful choices	good photograph – Is it	document can change	recording is stored as a	paint, gradient.	and use of images (copyright).
	Select, use and combine a		when painting a digital	blurry or can you see what	and prioritise the	file. That a file means an		Knowing that copyright means
	variety of software (including		picture. Choices will	is in the picture, is it too	information you need to	area that store specific	To recognise that vector	it belongs to a person or a
	internet services) on a range		include colour, mouse	dark or light, is the photo	share.	information.	drawings consist of layers	company and using this for
	of digital devices to design		control and how to use	real?				your own work is breaking the
	and create a range of		different tools to create		To choose appropriate	To explain that audio	To group objects to make	law.
Literacy	programs, systems and		different effects.	To decide how	page settings – colour,	can be changed through	them easier to work with.	
terc	content that accomplish			photographs can be	images used to support	editing. Editing can		To recognise the need to
بتا	given goals, including		To explain why I chose the	improved – what is it that's	text. That this will need	make it sound better,	To evaluate my vector	preview pages – this will allow
ital	collecting, analysing,		tools I used, being able to	wrong with the photo that	to change depending on	worse or different to	drawing – what is good	to check for things that will
Digital	evaluating and presenting		say what effect it has on	needs to be changed.	the audience it is aimed	the original.	and what could be	need changing and improving.
	data		the picture.	To use tools to change an	at.	To show that different	improved.	To outline the need for a
			To use a computer on my	image – recognising that	To add content to a	types of audio can be		navigation path. Also known
	Use technology safely,		own to a paint a picture.	these tools help improve	desktop publishing	combined and played		as a breadcrumb trail. This is
	respectfully and responsibly;		own to a paint a picture.	the image. Each tool has a	publication – images,	together also known as		provided by hyperlinks to
	recognise			different role to play and to	text boxes, interviews,	mixing.		connect different pages, this
	acceptable/unacceptable			recognise what this role is.	quotes.			leads to easy navigation and
	behaviour; identify a range of			i.e lightening the picture,	4	To evaluate editing		lets people see where they
	ways to report concerns			removing red eye.	To consider how	choices made, giving		have been.
	about content and contact				different layouts can	reasons why it was		
				To recognise that images	suit different purposes.	changed.		To recognise the implications
				can be changed using the				of linking to content owned by
				different tools available.	To consider the benefits			other people – other content
					of desktop publishing-			belongs to other people so
					does it make it easier?			you have no control over this.
								This could work positively or
								negatively.
	Digital Literacy Vocabulary		Paint program, tool,	Photography, editing,	Animation, frame,	Audio, input, output,	Video, audio, themes,	Web page, website, domain,
			paintbrush, erase, fill,	software, digital, portrait,	illusion, sequence,	microphone, speaker,	message, dialogue, plot,	hypertext, purpose/ audience,
			undo, click, drag, save, icon	landscape, scene, subject,	onion skinning,	podcast, waveform,	props, zoom, angle,	browser, copyright,
				lighting, colour	playback, storyboard,	jingle, track, presenter.	pan/tilt	homepage, navigation
					audio, consistency, text			pathways

Key stage 1	Digital Writing	Making Music	Stop-frame Animation	Photo Editing	Video Editing	3D Modelling
use technology safely and	To use a computer to	To say how music can	To explain that animation	To explain that digital	To recognise video as	To use a computer to create
respectfully, keeping	write, using a keyboard and	make us feel – happy,	is a sequence of drawings	images can be changed-	moving pictures, which	and manipulate three
personal information private;	exploring where hands	sad, energetic.	or photographs.	this is using software	can include audio.	dimensional (3D) digital
identify where to go for help	should be placed on the	Sau, energetic.	or priotographs.	and can make pictures	can include addio.	objects
and support when they have	keyboard.	To identify that there are	To relate animated	look better or fake.	To identify digital devices	Objects
concerns about content or	Reybourd.	patterns in music –	movement with a	TOOK DELLET OF TAKE.	that can record video –	To compare working digitally
contact on the internet or	To add and remove text on	repeating notes or	sequence of images.	To change the	tablets, phones,	with 2D and 3D graphics –
other online technologies.	a computer- using the	sounds. This could	sequence of images.	composition of an	camcorders.	how they look different and
other offine teermologies.	delete and cursor tools.	increase or decrease in	To plan an animation	image. That the	cameoraers.	present on the screen.
recognise common uses of		pattern.	with a purpose, stating	composition is how the	To capture video using a	present on the sereem
information technology	To identify that the look of	Patterin	what it will show and	picture first looks in	digital device – how to do	To construct a digital 3D
beyond school	text can be changed on a	To describe how music	how.	terms of brightness,	this correctly to gain all	model of a physical object
	computer – this text	can be used in different		contrast. This can be	information needed for	using the correct tools.
Key stage 2	increase and decrease in	ways – advertising,	To identify the need to	changed with tools to	the purpose of the video.	
select, use and combine a	size button, colour, font	parties, radio.	work consistently and	change the appearance		To identify that physical
variety of software (including	type.		carefully, how this will	i.e - black and white	To recognise the features	objects can be broken down
internet services) on a range		To show how music is	then effect work.		of an effective video – the	into a collection of 3D shapes
of digital devices to design	To make careful choices	made from a series of		To describe how images	information it contains,	·
and create a range of	when changing text- taking	notes. These notes are	To review and improve an	can be changed for	how the picture looks and	To design a digital model by
programs, systems and	into account how easy it is	individual and collectively	animation – reflecting on	different uses – positive	if it is in the frame for	combining 3D objects
content that accomplish	to read in relation to size	put together to make a	why this is the case.	reasons to show things	people to see.	
given goals, including	and font type.	piece of music.		clearer and promote a		To develop and improve a
collecting, analysing,			To evaluate the impact of	message.	To identify that video can	digital 3D model.
evaluating and presenting	To explain why I used the	To create music for a	adding other media to an		be improved through	
data	tools that I chose – what	purpose – link this to the	animation. Stating if it	To recognise that not all	reshooting and editing –	
	improvements did it make.	emotions it makes you	improves the animation,	images are real – why is	this is done through	
understand computer		feel. What is the music	how it improves it and	this and how can we	editing software and	
networks including the	To compare writing on a	used for – advert, game.	what they have added to	tell.	there are specific tools to	
internet; how they can	computer with writing on		improve it – i.e more		help with this.	
provide multiple services,	paper. How it looks	To review and refine our	images, change of story	To evaluate how		
such as the world wide web;	different and why.	computer work. Self	line.	changes can improve an	To consider the impact of	
and the opportunities they		reflection and the		image.	the choices made when	
offer for communication and		positives and			making and sharing a	
collaboration		improvements that can			video	
		be made.				
use technology safely,						
respectfully and responsibly;						
recognise						
acceptable/unacceptable						
behaviour; identify a range of						
ways to report concerns						
about content and contact	Tout word	Marsin arrestings 1	Dublishing to the	Distance in the	Master altitude II	No delline di condi
Digital Literacy Vocabulary	Text, word processor, font,	Music, emotions, pulse,	Publishing, text, images,	Photography, editing,	Vector, object, handles,	Modelling, three dimensional,
	keyboard, text cursor,	rhythm, patterns, pitch,	font, templates,	software, crop,	rotate, enlarge, reduce,	workspace, faces, vertices,
	enter, spacebar, toolbar,	tempo, instrument,	orientation, placeholders,	rotate/flip, copy,	layering, gradient, zoom,	edges, handles, duplicate,
	font, icon	sound, note	software, purpose,	brightness, contrast,	alignment, grouping	holes
			audience.	enlarge, reduce.		