# Beam County Primary School: Progression Map Subject: Computing



## **Key concepts:**

**Algorithms** 

**Problem Solving (Mathematical Concepts and Logic)** 

**Machines and Software** 

Digital Literacy

Communication and Coordination

EYFS	End Points EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	End Points KS2
Disciplinary	Understanding	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	1.Understanding
Learning to give	how to create	Developing the skills	Explaining what an	Using repetition in	Creating algorithms for	Decomposing a	Decomposing a	how to use
simple instructions.	and follow a	associated with	algorithm is.	programs.	a specific purpose.	program without	program into an	algorithms to
	range of simple	sequencing in				support.	algorithm.	solve problems.
Following	instructions in	unplugged activities.	Following an	Using logical	Coding a simple			Solve problems.
instructions as part	order.		algorithm.	reasoning to explain	game.	Writing and	Writing increasingly	
of practical	order.	Assembling		how simple		experimenting with	complex algorithms	
activities and		instructions into a	Creating a clear	algorithms work.	Using abstraction and	creating more complex	for a real life	
games.		simple algorithm.	and precise	End to be to the or the o	pattern recognition to	algorithms.	purpose.	
Knowledge		Drogramming a floor	algorithm.	Explaining the purpose of an	modify code.	Heing a mare	Dobugging guidkly	
Rillowiedge Being able to		Programming a floor robot to follow a	Learning that	algorithm.	Incorporating variables	Using a more systematic approach	Debugging quickly and effectively to	
follow and give		planned route.	programs execute	algoritiiri.	to make code more	to debugging code,	make a program	
simple instructions		platified foule.	by following	Forming algorithms	efficient.	justifying what is	more efficient.	
is important in		Learning to debug	precise	independently.	Cincient	wrong and how it can	more emoleric.	
coding.		instructions when	instructions.	macpendently.	Remixing existing	be corrected.	Using and adapting	
		things go wrong.		Incorporating loops to	code.		nested loops.	
The importance of		3-3	Incorporating loops	make code more				
instructions being		Using programming	within algorithms.	efficient.	Knowledge		Programming using	
in the correct		language to explain			Understand that a		the language	
order.		how a floor robot	Using an algorithm	Making reasonable	variable is a value that		'Python'.	
		works.	to write a basic	suggestions for how	can change and these			
An algorithm is a			computer program.	to debug their own	can be created in		Creating formulas	
set of clear,		Learning to debug		and others' code.	Scratch.		and sorting data	
precise		an algorithm in an	Using loop blocks		<b>-</b>		within spreadsheets.	
instructions.		unplugged scenario.	when	Knowledge	Pattern recognition		Ka suda da s	
		Knowledge	programming to	Know Scratch is a	means identifying patterns to help work		Knowledge Know there are text	
		Understand an	repeat an instruction more	programming language and know	out how the code		based programming	
		algorithm is when	than once.	some of its basic	worked.		languages called	
		instructions are put	man once.	functions.	worked.		'Python' and Logo'	
		in an exact order.	Knowledge	Turictions.	Understand that		1 ython and Logo	
		an oxage oragin	Know coding is		algorithms can be		Understand use of	
		Know algorithms	written in a special		used for a number of		random numbers	
		move beebots to	language so the		purposes (animations,		and remix 'python'	
		chosen destinations.	computer		games, designs etc).		code.	
			understands what					
			to do.				Know which	
							programming	
			Understand what				language is best to	
		1	steps you need to	1	1		achieve a purpose.	

			take to create an					
			algorithm.					
KS1: Use logical reason KS2: Use sequence, se	algorithms are; how the ning to predict the behav lection, and repetition in	iour of simple programs programs; work with varia	bles and various forms o	f input and output.	by following precise and unc	-		
KS2: Design, write and	l debug programs that ac	complish specific goals, inc	cluding controlling or sim		plve problems by decomposir	g them into smaller parts.		
					Disciplinary Using decomposition to solve a problem by finding out what code was used.  Using decomposition to understand the purpose of a script of code.  Using abstraction to identify the important parts when completing plugged and unplugged activities.  Coding a simple game.  Using abstraction to identify the important parts when completing plugged and unplugged activities.  Coding a simple game.  Using abstraction and pattern recognition to modify code.  Incorporating variables to make code more efficient.  Remixing existing code.  Knowledge Understand that a variable is a value that can change and these can be created in Scratch.  Know what a conditional statement is in programming.	Disciplinary Learning that external devices can be programmed by a separate computer.  Decomposing a story to be able to plan a program to tell a story.  Programming an algorithm.  Iterating and developing their programming as they work.  Confidently using loops in their programming.  Using a more systematic approach to debugging code, justifying what is wrong and how it can be corrected.  Writing code to create a desired effect.  Using repetition and a range of programming commands.  Amending code within a live scenario.  Knowledge Know one way of	Disciplinary Understanding and identifying barcodes, QR codes and RFID.  Identifying devices and applications that can scan or read barcodes, QR codes and RFID.  Remixing existing code to explore a problem.  Using and adapting nested loops.  Programming using the language 'Python'.  Changing a program to personalise it.  Knowledge Nested loops are loops inside of loops.  Data contained in barcodes and QR codes can be used by computers.  Know infrared waves are a way of transmitting data.  RFID is a more private way of transmitting data.	2.Be able to use a computer program to write code.
			Understand the character in Scratch is controlled by programming blocks.		Understand that variables can help you to create a quiz on Scratch.	composing a soundtrack is on programming software.  Understand that loops can make the process	transmitting data.  Know which programming language is best to achieve a purpose.	

		Detteme necessities	af contain a marcaia	Magazzathan basilatia -	
	12	Pattern recognition	of writing music	Know the building	
	Know you can	means identifying	simpler and more	blocks of	
	write a program to	patterns to help work	effective.	computational	
	create a musical	out how the code		thinking.	
	instrument or tell a	worked.	Know how to adapt		
	joke.		their music whilst		
			performing.		
			Know that a Micro:Bit		
			is a programming		
			device.		
			Know that Micro:Bit		
			uses a block coding		
			language similar to		
			Scratch.		
			Octatori.		
			Understand and		
			recognise coding		
			structures including		
			variables.		
			variables.		
			Know what to abnique		
			Know what techniques		
			to use to create a		
			program for a specific		
			purpose.		
			Karamatan and a street		
			Know decomposition		
			of an idea is important		
			when creating stop		
			motion animations.		
			The department of the con-		
			Understand that stop		
			motion is filmed one		
			frame at a time with		
			tiny changes between		
			each photograph.		
			Know editing is an		
			important feature in		
			creating a stop motion		
			animation.		
NC Alignment					

- KS1: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- KS1: Use logical reasoning to predict the behaviour of simple programs
- KS2: Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.
- KS2: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

Disciplinary Use logical reasoning to understand simple instructions as part of practical activities and	Be able to fix simple technological situations that have gone wrong.	Disciplinary Learning that decomposition means breaking a problem down into smaller parts.	Disciplinary Articulating what decomposition is.  Decomposing a game to predict the algorithms	Disciplinary Using logical thinking to explore more complex software; predicting, testing and explaining what it does.	Using decomposition to solve a problem by finding out what code was used.  Using decomposition	Disciplinary Recognising that computers transfer data in binary.  Understanding simple binary addition.	Disciplinary Debugging quickly and effectively to make a program more efficient.	3.Be able to use mathematical and logical concepts to solve problems.
games.			used to create it.		to understand the			

	Uning	Malianuaganalda	norman of a covert of	Deleties bises ciencle	Due dietie er ee de ee d	
	Using	Making reasonable	purpose of a script of	Relating binary signals	Predicting code and	
Learning to debug		g that there suggestions for how	code.	(Boolean) to the	adapting it to a	
instructions, with	1 33	erent levels to debug their own		simple character-	chosen purpose.	
the help of an	challenges. of abstr	action. and others' code.	Identifying patterns	based language,		
adult, when things			through unplugged	ASCII.	Evaluating code to	
go wrong.	Use logical Using lo		activities.		understand its	
		to explore		Learning that	purpose.	
Knowledge	the behaviour of software	,	Using past	messages can be sent		
Understand why a	several programs. prediction	ng, testing	experiences to help	by binary code,	Gathering and	
set of instructions	and exp	laining	solve new problems.	reading binary up to	analysing data in	
may have gone	Learning to debug what it of	does.		eight characters and	real time.	
wrong.	instructions when		Using abstraction to	carrying out binary		
	things go wrong. Knowle	dge	identify the important	calculations.	How 'big data' can	
Debugging means	Know a	bstraction	parts when completing		be used to solve a	
how to fix program	Learning to debug is the re	emoving of	plugged and	Understanding how bit	problem or improve	
errors.	an algorithm in an an unne	ecessary	unplugged activities.	patterns represent	efficiency.	
	unplugged scenario. detail to	help solve		images as pixels.	-	
	a proble	em.	Knowledge			
	Knowledge		Combining	Identify ways to		
	Understand		computational thinking	improve and edit		
	decomposition		skills can help you	programs, videos and		
	means breaking a		solve a problem.	images.		
	problem down into		·	· ·		
	manageable			Knowledge		
	chunks.			Know what numbers		
				using binary code look		
	Know we call errors			like and be able to		
	in computing 'bugs'			identify how messages		
	and fixing these is			can be sent in this		
	'debugging'.			format.		
	33 3					
				Know bit patterns		
				represent images as		
				pixels.		
NC Alignment	ı	ı .	II.	F	I .	

KS1: Use logical reasoning to predict the behaviour of simple programs										
KS2: Use logical reasoning to explain how some simple algorithms work as	nd to detect and correct	errors in algorithms and pro	ograms.							
Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	4.Understanding				
Recognising	Learning how	Learning about the	Understanding that	Learning about	Understand how	of different				
devices that are	computers are	purpose of routers.	computer networks	different forms of	corruption can	networks and				
connected to the	used in the wider		provide multiple	communication that	happen within data					
internet.	world.	Understanding the	services, such as the	have developed with	during transfer.	how they				
		role of the key	World Wide Web, and	the use of technology.		communicate.				
Knowledge	Knowledge	components of a	opportunities for		Understanding that					
Know login and	Know that	network, including	communication and	Developing searching	computer networks					
logout means to	computers often	whether they are	collaboration.	skills to help find	provide multiple					
begin and end a	work together.	wired or wireless.		relevant information	services.					
connection with a	3 - 1 - 3 - 1 - 1		Knowledge	on the internet.						
computer.	Understand the	Understanding that	Software can be used		Knowledge					
	difference between	websites and videos	collaboratively online	Knowledge	Data can be					
Know the internet is	online and offline.	are files that are	to work as a team.	Know what search	corrupted in the					
many devices		shared from one		engines are.	network although it					
connected to one		computer to another.	Know what type of		is less likely if it is					
another			collaborative	Know that web	sent in packets.					
		Learning about the	comments on a	crawlers are computer	22					
		role of packets.	Service of a	c.a.more are computer						
		Total of packets.	1		l	L				

	T	decision and see the	Lancoura de et consul	I	1
		document can be	programs that crawl		
	Understanding how	helpful.	through the internet.		
	networks work and				
	their purpose.				
	Recognising links				
	Recognising links				
	between networks				
	and the internet.				
	Learning how data is				
	transferred.				
	transferred.				
	Knowledge				
	Knowledge				
	Understand that a				
	network is a group of				
	interconnected				
	devices.				
	Know components				
	that make we a				
	that make up a				
	network (WAP,				
	router, server,				
	devices)				
	,				
	Know a server is				
	central to a network				
	and responds to				
	requests.				
	Know the internet				
	connects all the				
	networks around the				
	world.				
	world.				
	Karana mandan				
	Know a router				
	connects us to the				
	internet.				
	Know a packet is				
	important for website				
	data transfer.				
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NC Alignment					

KS1: Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

KS2: Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.

Disciplinary	Know personal	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	5.Understanding
Recognising that a	information can	Understanding that	Identifying whether		Learning to make	Identifying possible	Learning about the	of different
range of	be shared with	we are connected to	information is safe	different information	judgements about the	dangers online and	positive and	security issues
technology is used	others online	others when using	or unsafe to be	is shared online	accuracy of online	learning how to stay	negative impacts of	and how to deal
in places such as	but that this	the internet.	shared online.	including facts,	searches.	safe.	sharing online.	with them.
homes and	should be done	11. 1		beliefs and opinions.			B 1 1	
schools.	so carefully.	Understanding	Learning how to	La contra de la contra atra-	Identifying forms of	Evaluating the pros	Developing	
The secretary to the sets	so carefully.	some of the ways	create a strong	Learning how to stay	advertising online.	and cons of online	strategies to create	
Learning to log in		we can use the	password.	safe on social media.	December what	communication.	a positive online	
and out.		internet.	La amala a ta la a		Recognising what	December of the t	reputation.	
			Learning to be		appropriate behaviour	Recognising that		
			respectful of others			information on the		

Understanding personal information can be shared to others through technology.

#### Knowledge

To use a computer, you need to login and logout at the end of a session.

Know different types of technology can be found at home and school.

You can share your name and other details with people on the internet.

Recognising common uses of information technology, including beyond school.

Learning what to do if they come across something online that worries them when searching for images.

Understanding how to interact safely with others online.

Recognising how actions on the internet can affect others.

Recognise what a digital footprint is and how to be careful about what we post.

#### Knowledge

Know that passwords are important for security.

Know how to search safely online for images.

Know what to do if you feel unsafe or worried online.

Know people you don't know online are strangers and are not always who they say they are.

Know it is important to keep personal information safe online.

Posting online means placing

when sharing online and ask for their permission before sharing content.

Learning strategies for checking if something they read online is true.

Understanding how to stay safe when talking to people online and what to do if they see of hear something online that makes them feel upset or uncomfortable.

### Knowledge

Understand what information I should not post online.

Know the techniques to create a strong password.

Know you should ask permission before sharing others' information online and that they have the right to say no.

Understand not everything you ready online is true.

Considering the impact technology can have on mood.

Defining 'cyberbullying'.

Learning that not all emails are genuine, recognising when an email might be fake and what to do about it.

#### Knowledge

Understand emails should contain appropriate and respectful content.

Know cyberbullying is bullying using electronics such as a computer or phone.

Know not everything on the internet is true: people share beliefs and opinions online.

Understand the internet can affect your moods and feelings.

Know privacy settings limit who can access your personal information.

Know what social media is and what age restrictions apply.

is when collaborating with others online.

Reflecting on the positives and negatives of time online.

Identifying respectful and disrespectful online behaviour.

Recognising that information on the internet might not be true or correct and that some sources are more trustworthy than others.

#### Knowledge

Know what fake news is and ways to spot websites that carry this sort of misinformation.

Understand some methods used to encourage people to buy things online.

Understand technology can be designed to act like or impersonate things.

Understand that technology can be a distraction and identify when someone might need to limit the amount of time spent using technology

Understand appropriate behaviours in order to stay safe and be respectful online. internet might not be true and identifying ways to check validity.

Learning what to do if they experience bullying online.

Learning to use an online community safely.

#### Knowledge

Know what copyright is.

Know different ways we can communicate online.

Understand how online information can be made to form judgements.

Understand some ways to deal with online bullying.

Know apps require permission to access private information and that you can alter the permissions.

Know where I can go for support if I am being bullied online or feel that my health is being affected by time online Understanding the importance of secure passwords and how to create them.

Learning strategies to capture evidence of online bullying in order to seek help.

Using search engines safely and effectively.

Recognise that updated software can help prevent data corruption and hacking.

#### Knowledge

Importance of having a secure password and knowledge of 'brute force hacking'.

First computers created at Bletchley Park to crack the Enigma Code.

Data is encrypted so even if stolen, is not useful to the thief.

Know a digital footprint means the information exists on the internet as a result of the person's online activity.

Know the steps required to capture bullying content as evidence.

Understand how to obtain a positive online reputation.

		information on the					Know some	
		internet.					common online	
							scams.	
C Alignment							talanakan alban alban a	ata a ta a ta a
		eping personai informatior chnology beyond school	n private; iaentijy wnere	to go for neip ana support v	when they have concerns abo	ut content or contact on the	internet or other online te	ecnnologies.
-	, ,	3, ,	ahla/unaccantahla haha	viour: identify a range of w	ays to report concerns about	content and contact		
	Know we can	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	6.Be able to
		Learning how to	Understanding	Understanding what	Building a web page	Identifying the	Learning about the	
	use technology	explore and tinker	what a computer is	the different	and creating content	difference between	history of computers	explain the different
toko	to communicate	with hardware to	and that it's made	components of a	for it.	ROM and RAM.	and how they have	
notographs of	with others and	find out how it	up of different	computer do and how	101 111		evolved over time.	hardware and
eaningful	that different	works.	components.	they work together.	Designing and	Recognise how the		software in
eations or	functions relate				creating a web page	size of RAM affects	Using logical	computers and
oments.	to different	Recognising that	Recognising that	Drawing comparisons	for a given purpose.	the processing of data.	thinking to explore	how they work
1	tasks.	some devices are	buttons cause	across different types			software	together.
earning how to		input devices and	effects and that	of computers.	Use online software	Understanding the	independently,	
cplore and tinker		others are output	technology follows		for documents,	fetch, decode, execute	iterating ideas and	
ith hardware to		devices.	instructions.	Using decomposition	presentations, forms	cycle.	testing continuously.	
evelop familiarity.				to explain the parts of	and spreadsheets.			
		Learning where	Using greater	a laptop computer.		Learning how data in	Planning, recording	
ecognising and		keys are located on	control when		Using software to work	digital images can be	and editing a radio	
entifying familiar		the keyboard.	taking photos with	Take photographs	collaboratively with	compressed.	play.	
tters and umbers on a		Loorning how to	cameras, tablets or	and recording video	others.	Decembering	Creating and editing	
eyboard.		Learning how to operate a camera to	computers.	to tell a story.	Understanding why	Decomposing animations into a	Creating and editing videos, adding	
eyboard.		take photos and	Developing	Using software to edit	some results come	series of images.	multiple elements:	
eveloping basic		videos.	confidence with	and enhance their	before others when	selles of images.	music, voiceover,	
ouse skills such		videos.	the keyboard and	video adding music,	searching.	Predicting how	sound, text and	
s moving and		Using a basic range	the basics of touch	sounds and text on	Scaroning.	software will work	transitions.	
icking.		of tools within	typing.	screen with	Using keywords to	based on previous	tranottorio.	
orang.		graphic editing	typing.	transitions.	effectively search for	experience.	Using design	
se a simple		software.	Developing word		information on the		software TinkerCAD	
nline paint tool to			processing skills,	Learning to log in and	internet.	Using logical thinking	to design a product.	
eate digital art.		Taking and editing	including altering	out of an email		to explore software,		
		photographs.	text, copying and	account.	Understanding that	making predictions	Creating a website	
nowledge			pasting and using		information found by	based on their	with embedded links	
nderstand what a		Developing control	keyboard	Writing an email	searching the internet	previous experience.	and multiple pages.	
omputer		of the mouse	shortcuts.	including a subject	is not all grounded in			
eyboard is and		through dragging,		'to' and 'from'	fact.	Using software to	Knowledge	
cognise some		clicking and resizing	Using word	One discussed and bigs	December of the form	create music.	Know techniques	
tters/ numbers.		of images to create	processing	Sending and replying	Recording data in a	Hoing vides adition	required to create a	
now a mouse is		different effects.	software to type and reformat text.	to an email with an attachment.	spreadsheet independently.	Using video editing software to animate.	presentation using	
sed to click, drag		Develop	and reformat text.	attatriment.	independently.	SULWAIT IU AIIIIIAIT.	appropriate software.	
nd create simple		understanding of	Using software to	Understanding the	Sorting data in a	Identify ways to	Software.	
awings.		different software	create story	purpose of emails.	spreadsheet to	improve and edit	Know radio plays	
<del>g</del> o.		tools.	animations.	parpood of officials.	compare using the	programs, videos and	can only be heard	
use a				Knowledge	'sort by' option.	images.	by the audience so	
emputer, you		Searching and	Creating and	Understand that	7 1		sound effects are	
eed to login and		downloading images	labelling images.	email stands for	Understanding that	Beginning to learn	important.	
gout at the end		from the internet		electronic mail.	software can be used	how to use 3D design		
a session.		safely.	Searching for		collaboratively online	software (TinkerCAD).	Sound clips can be	
			appropriate	To know an	to work as a team.		recorded using	
now different		Using software to	images to use in a	attachment is an		Developing searching	sound recording	
pes of		explore and create	document.	extra file in an email.	Knowledge	skills to help find	software.	1

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technology can be	pictograms and			Know you can use	relevant information		
found at home and	databases.	Understanding	Know the roles inputs	images, text,	on the internet.	Sound clips can be	
school.		what online	and outputs play on	transitions and		edited and trimmed.	
	Logging in and out	information is.	computers.	animations in	Learning how to use		
You can take	and saving work on			presentation slides.	search engines		
simple photos with	their own account.	Collecting and	Know some different		effectively to find		
an IPAD or camera		inputting data into	components inside a	Know that a website is	information, focusing		
<ul> <li>holding it still and</li> </ul>	Knowledge	a spreadsheet.	computer (CPU,	a collection of pages	on key word searches		
keeping the	Know a computer	a spreadsmeet.	RAM, hard drive) and	that are all connected.	and evaluating search		
subject in the shot.	and mouse can be	Knowledge	how they work	that are all connected.	returns.		
Subject in the shot.	used to click, drag,	Know the	together.	Know websites usually	returns.		
			together.		Maranda da a		
	fill and select.	difference between		have a home page	Knowledge		
		a desktop and	Know how a tablet is	and sub pages as well	Know how search		
	Know input devices	laptop computer.	different to a desktop	as clickable links to	engines work.		
	get information into		computer or laptop.	new pages called			
	a computer and	Know some input		hyperlinks.	Understand that		
	output devices	devices that give a	Know different types		anyone can create a		
	retrieve from a	computer an	of camera shots can	Know websites should	website and therefore		
	computer.	instruction about	make my photos or	be informative and	we should take steps		
		what to do.	videos look more	interactive.	to check the validity of		
	Know when we	what to do.	effective.	interactive.	websites.		
	create something on	Know that touch	CITCUIVC.	Understand and	websites.		
	a computer it is	typing is the	Know I can edit	identify examples of	RAM means Random		
	more easily saved	fastest way to	photos and videos	HTML tags.	Access Memory and is		
	and shared than a	type.	using film editing		the computer's		
	paper version.		software.	Understand what	working memory.		
		Know I can make a		changing the HTML			
	Know some simple	text a different	Understand I can add	and CSS does to alter	Know what simple		
	graphic design	style, size and	transitions and text to	the appearance of an	operations can be		
	features of a piece	colour.	my video.	object on the web.	used to calculate bit		
	of online software.				patterns.		
		Know that 'copy		Understand copyright	•		
	Use a camera/tablet	and paste' is a		means images are	Understand data for		
	to make simple	quick way of		protected.	digital images can be		
	videos.	duplicating text.		proteoted.	compressed.		
	videos.	duplicating text.		Know what the inspect	compressed.		
	Holding the camera	Understand an		elements tool is and	The difference		
	still and considering	animation is a		ways of using it to	between RAM and		
	lighting and angles	sequence of		explore and alter text	ROM.		
	create better videos.	photographs.		and images.			
					Understand various		
	Know you can edit,	Small changes in			techniques that will		
	crop and filter	my frame will			improve the design of		
	photographs.	create a smoother			a 3D object.		
		animation.			<u> </u>		
	Know computers						
	understand different	Software creates					
	types of input.	simple animations.					
	5, p 30 01 11 put	Spio ariimationo.					
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#### NC Alignment

- KS1: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. KS1: Recognise common uses of information technology beyond school.
- KS2: 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.
- KS2: Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.

Disciplinary	Able to interpret	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	Disciplinary	7.Be able to
Representing data	and represent	Understanding that	Interpreting data	Learning about the	Using tablets or digital	Understand how data	Using past	evaluate real
through sorting		technology can be	from a	pros and cons of	cameras to film a	is collected in remote	experiences to help	
and categorising	simple <mark>real</mark>	used to represent	spreadsheet.	digital versus paper	weather forecast.	and dangerous places.	solve new problems.	world issues by
objects in	world data that	data in different	oproductioo	databases.		and dangerous places.	Corre non presioner	using personal
unplugged	is presented in	ways: pictograms,	Learning how		Understand that	Understanding how	Creating and editing	experiences and
scenarios.	a variety of	tables, pie charts,	computers are	Recognising how	weather stations use	data might be used to	sound recordings for	real life examples.
	mediums.	bar charts etc.	used in the wider	social media	sensors to gather and	tell us about a	a specific purpose.	
Representing data			world.	platforms are used to	record data which	location.		
through		Using data		interact.	predicts the weather.		Learning about the	
pictograms.		representations to	Understanding			Amending code within	positive and	
' ŭ		answer questions	how to stay safe	Sorting and filtering	Using past	a live scenario.	negative impacts of	
Exploring branch		about data.	when talking to	databases to easily	experiences to help		sharing online.	
databases through			people online and	retrieve information.	solve new problems.	Learning to use an		
physical games.		Knowledge	what to do if they			online community	Knowledge	
		Know a spreadsheet	see of hear	Creating and	Designing a device	safely.	Know about some	
Knowledge		is an electronic table	something online	interpreting charts	which gathers and		historical figures that	
Sorting objects into		for sorting data.	that makes them	and graphs to	records sensor data.	Knowledge	contribute to	
various categories			feel upset or	understand data.		Know the Mars Rover	technological	
can help you		Know how charts	uncomfortable.		Knowledge	is a motor vehicle that	advances in	
locate information.		and pictograms can		Knowledge	Computers can use	collects data from	computing.	
		be created using a	Knowledge	Know a database is a	different forms of input	space by taking		
Using yes/no		computer.	Know that people	collection of data	to sense the world	photos and examining		
questions to find			control technology.	stored in an orderly	around them so they	rocks.		
answers is a		A branching		manner.	can record and			
'branching		database is a good	Know you can		respond to data.			
database'.		way to classify a	enter simple data	Know computer				
		group of objects.	into a spreadsheet.	databases can be	Know a weather			
A pictogram is a				useful for sorting and	machine is an			
way of showing			Know what data to	filtering data.	automated machine			
information.			use to answer	Kannadiffanant daval	that responds to			
			questions.	Know different visual	sensor data.			
			IZ	representations of	He denotes describes			
			Know computers can be used to	data are made on a	Understand weather			
				computer.	forecasters use specific language,			
			manage supplies.		expression and pre-			
					pared scripts to help			
					create weather			
					forecast films.			
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#### NC Alignment

- KS1: 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.
- KS1: Recognise common uses of information technology beyond school
- KS2: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.