## Computing Overview – 2022-23

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Computing	Word/Pages	Programming: Algorithms unplugged &		Data Handling:	Creating Media:
	Systems: Improving		Bee-bots Kapow		Introduction to	Digital Imagery
	mouse skills				data	Kapow
			, nup			Kapow
	Каром				Каром	
Focus	<ul> <li>Identify different digital devices around you and their uses</li> <li>Navigate devices using mouse and keyboard</li> <li>Use a mouse/touchpad to select and drag</li> <li>Find keys on a keyboard and type with fluency</li> <li>Log on to devices</li> <li>Identify inputs and outputs</li> </ul>	<ul> <li>Open a document</li> <li>Find keys on a keyboard and type</li> <li>Type name into a document</li> <li>Type a short sentence using capital letter and full stop</li> <li>Add an image and resize it</li> </ul>	<ul> <li>Create an algorithm to guide from a start point to an end point</li> <li>Create a sequence of instructions to be followed</li> <li>Solve problems using algorithms and debugging         <ul> <li>Recognise errors and debug them</li> </ul> </li> </ul>		<ul> <li>Represent animal-themed data</li> <li>Log in to device</li> <li>Use mouse and keyboard skills</li> <li>Represent data as pictogram, table or chart</li> <li>Sort data using branching database</li> </ul>	<ul> <li>Explore digital art</li> <li>Discuss likes and dislikes to help plan</li> <li>Use tools to create a digital drawing</li> <li>Use click and drag</li> </ul>
Year 2	Computing	Computing	Programming: Algorithms and Debugging		Data Handling: ISS	Creating media:
	Systems: What is a	Systems: Word	& Scratch Jr		Кароw	Stop-Motion
	Computer?	Processing	Кароw			Кароw
	Кароw	Кароw				
Focus	<ul> <li>Name some computer peripherals and functions</li> <li>Recognise that buttons cause effects</li> <li>Recognise different forms of technology</li> <li>Design an invention that uses inputs and outputs</li> </ul>	<ul> <li>Open a document</li> <li>Find keys on a keyboard and type         <ul> <li>Add and edit text</li> <li>Add and edit an image</li> <li>Copy and paste text and images                 <ul> <li>Save work</li> <li>Retrieve saved work</li> </ul> </li> </ul> </li> </ul>	- Create, follow and improve an algorithm - Move a character using a sequence of steps - Edit an algorithm - Avoid obstacles - Debug an algorithm		- Collect data - Edit a table to create a bar chart - Ask and answer questions based on data collected - Present data	<ul> <li>Explore history of animation</li> <li>Create flipbook animations</li> <li>Review stop-motion animations</li> <li>Plan an animation</li> <li>Create an animation using still frames</li> <li>Insert captions/text</li> <li>Evaluate the project</li> </ul>
Year 3	Online Safety	Computing	Programming:	Computing	Data Handling:	Creating Media:
	Каром	Systems: Networks	Scratch Jr and	systems: Journey	Numbers/Excel	Video Trailers -
		, and the internet	Scratch	inside a computer	•	Кароw
	Word/Pages	Kapow	Кароw	Каром		
Focus	- Open a document	- Recognise and explain what	- Decompose an algorithm	- Recognise inputs and	- Collect data on a given	- Watch and evaluate short
10003	- Find keys on a keyboard and	a network is	- Write a program including	outputs	subject	trailers
	type	- Explain how information	text and movement	- Explain the parts of a laptop	<ul> <li>Create a spreadsheet to</li> </ul>	<ul> <li>Plan a book trailer using</li> </ul>
	- Add and edit text	moves around a network and	<ul> <li>Use a repeat function</li> </ul>	and how they work together	present data	storyboarding
	- Add and edit an image	the role of a server	- Write a program using	- Explain what an algorithm is	- Edit a table to create a bar	- Take images and videos
	- Copy and paste text and	- Understand networks link to	different inputs	- Explain the different	chart	using different movements
	images	the internet via a router		memory types inside a	- Ask and answer questions	and angles
	- Save work	- Explain the journey a		computer	based on data collected	- Use iMovie to import and
	- Retrieve saved work	website takes	l	l		combine videos/images

						<ul> <li>Add transitions and text</li> <li>Evaluate final product and give feedback to others</li> </ul>
Year 4	Online Safety	Video Editing:	Programming: Further coding with		Data Handling:	Creating Media:
	Кароw	iMovie	Scratch & Compu	utational Thinking	Investigating	Website Design
			Kar	oow	Weather	Каром
	Keynote/				Кароw	
	Powerpoint				hapon	
	- Add new slides	- Experiment with green	- Decompose an algorithm and explain how it works		- Ask and answer questions	- Create a website on Sway
Focus	- Add and edit text	screen technology by	- Use sprites and background tools to create a scene		about spreadsheets	with title and image
	- Add and edit images	changing a background on a		nd make them move	- Use given data to create a	- Plan a webpage
	- Copy and paste text and	picture		ent in an algorithm	spreadsheet	- Create clear sections with
	images - Change the background of	<ul> <li>Plan a video using storyboarding</li> </ul>		epeat loop d include conditionals	<ul> <li>Gather and present data</li> <li>Use data to create a graph</li> </ul>	links
	slides	- Export video and images to			- Add formulas to add totals	
	- Save work	iMovie			- Copy and paste a graph	
	- Retrieve saved work	<ul> <li>Add text, and transitions</li> <li>Present video to an audience</li> </ul>				
Year 5	Online Safety	Computing	Video Editing and	Programming	Programming	Creating Media:
	Kapow	Systems: Search	Green screen:	Microbit	Music	Stop motion
	hapon	Engines	iMovie	Kapow	Кароw	animation
	Mand /Demonstrat	•	INVIOVIC	Kapow	καροιν	
	Word/Powerpoint	Kapow	Dia secida secia		Food sate have a	Каром
Focus	- Complete internet research - Add in new slides	- Explain what a search engine is	<ul> <li>Plan a video using storyboarding</li> </ul>	- Predict outputs from a range of inputs	<ul> <li>Evaluate how a program/game works</li> </ul>	- Create a short stop-motion animation
	- Add and edit text	- Understand not all	- Create a script linked to the	- Create images/animation	- Decompose a program into	- Storyboard animation
	- Add and edit images	information online can be	video	using 'on start' and 'forever'.	smaller parts	- Add effects
	<ul> <li>Copy and paste text and</li> </ul>	trusted	<ul> <li>Record content including</li> </ul>	- Explore variables and explain	- Create and debug a series of	- Review and feedback
	images	- Explore how keywords help	green screen	how they work	algorithms	
	<ul> <li>Change the background on slides</li> </ul>	define a search - Explore meaning of	<ul> <li>Export video and images to iMovie</li> </ul>	<ul> <li>Break a program down into smaller steps, suggesting</li> </ul>	<ul> <li>Use sensors and variables</li> <li>Add multiple conditions</li> </ul>	
	- Add transitions and	copyright and fair use	- Add backgrounds, text,	appropriate blocks and match	- Add variables	
	animations		music and transitions	the algorithm to the program.		
	- Save work					
Year 6	Online Safety	Computing	Creating Media:	Programming: Intro	Data Handling: Big	Garageband
	Кароw	Systems: Bletchley	History of	to Python	data 1	
		Park	Computers		Кароw	
	Keynote/Pages	Кароw	Кароw			
Focus	- Format text to include	- Learn about the history of	- Create a radioplay	- Evaluate how a	- Understand how QR and	- Review digital music and
	paragraphs, title, images,	Bletchley Park - Explore codes and brute	- Record, edit and add sound	program/game works	barcodes are used	techniques Create digital music
	subheadings, bullet point lists and tables	- Explore codes and brute force hacking	effects - Research how computers	- Decompose a program/game into smaller parts	<ul> <li>Create and scan own QR code</li> </ul>	<ul> <li>Create digital music</li> <li>Use live loops</li> </ul>
	- Format text to change font	- Explore the first computer	have changed throughout	- Create and debug a series of	- Explore infared and RFID	- Create tracks
	colour, underline and bold	and how it was used	history	algorithms	- Take real time data and	- Edit sound recordings
	- Use the spell check tool and	- Carry out research on	- Create a presentation based	- Use sensors and variables	enter into spreadsheet	
	thesaurus	historical figures and their	on a computer that changed		- Analyse data	
		advancements in technology	the world			1

- Add animations and	- Focus on Alan Turing,	- Design a computer of the				
transitions	Margaret Hamilton, Steve	future using design software				
- Add notes to assist with	Jobs					
presenting						
- Create hyperlinks						
	← E-Safety/Digital Literacy to be taught across the year →					