

Curriculum Handbook for Computing EYFS and Key Stage 1 Sequence of Learning



St. Martin's
C. of E. Primary School
Serve one another in love
Galatians 5v13



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Computing Sequence of Learning – EYFS and Key Stage 1

The Bays	Name Of Unit	Strand	Key Vocabulary	Objectives
Autumn 1 Autumn 2	Exploring Hardware	Computing systems and networks	Naming items in the tray such as a mouse, screen, camera etc.	I can name hardware including screen, keyboard, camera and mouse
Spring 1	All About Instructions	Programming	Instructions, debugging	I can follow and give instructions.
Spring 2	Programming Bee-Bots	Programming	Directional language such as right, left, forwards	I can programme a bee-bot to move around an area.
Summer 1	Introduction To Data	Data Handling	Sorting, yes,no, branching database (flow chart)	I can sort a range of items into a range of categories.
Summer 2	Using a computer	Computing systems and networks	Logging in, mouse control, clicking, dragging.	I can log in with support. I can use a mouse complete basic tasks.



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Burniston Rocks	Unit Name: Programming Bee-Bots	Strand: Programming		
	National curriculum objectives	Key Vocabulary		
	Understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following precise and unambiguous instructions.	algorithm	inputting	video
	Create and debug simple programs.	artificial intelligence	instructions	video recording
		Bee-Bot	pause	
	clear	precise		
	code	predict		
	debug	program		
	filming	tinker		
Unit Outcomes				
Recognise cause and effect when pressing buttons on a Bee-Bot.				
Discuss and demonstrate how the Bee-Bot works.				
Record video ensuring everyone is in the shot.				
Give a a number of clear instructions in sequence.				
Program a Bee-Bot to reach a destination.				
Identify and correct mistakes in their programming.				

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To explore a new device	<p>I can 'tinker' with the buttons of a Bee-Bot to see what they do.</p> <p>I can complete a cycle of predict, test and review.</p>	algorithm, Bee-Bot, code, instructions
	2 – To create a demonstration video.	<p>I can create a video to explain how to use a Bee-Bot.</p> <p>I can explain what the buttons on a Bee-Bot do.</p> <p>I can show how the Bee-Bot moves when you press the different buttons.</p>	algorithm, Bee-Bot, code, demonstration, filming, video.
	3 – To plan and follow a precise set of instructions.	<p>I can follow verbal instructions.</p> <p>I can give precise instructions.</p> <p>I can check that the instructions being given are correct.</p>	algorithm, Bee-Bot, explain, explore, instructions, precise, video.
	4 – To program a device.	<p>I can personalise my Bee-Bot world.</p> <p>I can consider how the Bee-Bot can move from one place to another.</p> <p>I can plan a Bee-Bot route.</p> <p>I can program a Bee-Bot to follow my planned route.</p>	Bee-Bot, program
	5 - To create a program that tells a story.	<p>I can use programming to give the Bee-Bot clear instructions.</p> <p>I can debug my instructions if they go wrong by identifying and correcting the mistake.</p>	algorithm, Bee-Bot, debug, program.

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Burnisto n Rocks	Unit Name: Word Processing Skills	Strand: Computing Systems and Networks		
	National curriculum objectives	Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Backspace	Keyboard shortcut	
	Use technology safely and respectfully, keeping personal information private.	Bold	Keyword	
	Recognise common uses of information technology beyond school.	Copy	Layout	
Unit Outcomes	Copyright	Navigate		
Explain which are the home row keys and how to find them for typing.	Cut	Paste		
Use the spacebar and backspace correctly.	Delete	Redo		
Type and make simple alterations to text using buttons on a word processor.	Forward button	Search		
Modify text in a document.	Highlight	Space bar		
Explain what information is safe to be shared online.	Home row	Text		
	Home screen Image	Text effects		
	Import	Touch typing		
	Italics	Underline		
	Keyboard	Undo		
	Keyboard character	Word processing		

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – I can type on a keyboard.	I can find keys on a computer keyboard. I can identify that the keyboard is an important input device.	keyboard, typing, text,
	2 – I can type symbols and save files	I can type a special symbols I can use the save icon to save a file.	save, keyboard, click, keyboard shortcut
	3 – I can edit text	I can use backspace. I can highlight and select a word.	text, edit, undo, word processing
	4 – I can use a keyboard	I can find keys on a computer keyboard. I can type simple words on a keyboard. I can identify that the keyboard is an important input device.	keyboard, shortcut, text,
	5 – I can select and format text.	I can select text and make it bold or italic.	keyboard, text, bold, italics, copy, paste,
	6 – I can format the font	I can select text and select different fonts.	keyboard, text, bold, italics, copy, paste,



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Burniston Rocks	Unit Name: Improving Mouse Skills	Strand: Computing Systems and Networks		
	National curriculum objectives	Key Vocabulary		
	I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Log in	Screen	
	Recognise common uses of information technology beyond school.	Login	Password	
	Use technology safely and respectfully, keeping personal information private.	Log out / off Mouse	Account	
	Mouse pointer	Software		
	Click	Duplicate		
	Keyboard	Ctrl		
Unit Outcomes	Tools			
Use computers more purposefully				
Log in and navigate around a computer				
Drag, drop, click and control a cursor using a mouse				
Use software tools to create art on the computer.				

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To log in to a computer and access a website.	<p>I can recognise what we mean by a computer</p> <p>I can understand why we need to log into a computer.</p> <p>I can log in and out of a computer account.</p>	account, computer, log off, log on, mouse, password, predict, screen (monitor), software, tool.
	2 – To develop mouse skills.	<p>I can navigate a computer using a mouse.</p> <p>I can understand what we mean by 'click' and 'drag'.</p> <p>I can use the fill and stamp tools in Sketchpad.</p>	click, clipart, drag, duplicate, explore, log off, redo, resize, undo, username.
	3 – To use mouse skills to draw and edit shapes.	<p>I can click and drag objects to change their size or position.</p> <p>I can use a mouse to carefully position shapes.</p> <p>I can move shapes in front of or behind others.</p>	bring to the front, drag and drop, fill, layers, left-click, log off, outline, right-click, tool.
	4 – To draw a scene from a story using digital tools.	<p>I can identify the key parts of a story.</p> <p>I can use drag and drop to move and resize images.</p> <p>I can use a variety of tools to create different effects.</p>	clipart, drag and drop, image, log off, resize, texture, undo.
	5 – To create a self portrait using digital techniques.	<p>I can identify different facial features.</p> <p>I can use click and drag to create and layer shapes.</p> <p>I can resize, move and change the order of shapes.</p>	differences, ellipse, facial, features, oval, portrait, self-portrait, similarities.



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Burnisto n Rocks	Unit Name: Rocket To The Moon	Strand: Showcase		
	National curriculum objectives	Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Annotate	Digital image	Log in
	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Cells	Document	Photo
	Unit Outcomes	Components	E-document	Program
	Use a computer to make a list.	Create	Edit	Order
	Explain the benefits of making a list on the computer.	Data	Editing program	Robot
Use a basic range of tools on graphics editing software to design a rocket.	Debug	Evaluate	Save	
Sequence instructions.	Designing	Folder	Sequence	
Follow instructions to build their model rocket.	Digital content	Input	Software	
Input data about their rockets into a table or spreadsheet.	Share	Instructions	Spreadsheet	
			Table	

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To recognise that digital content can be represented in many forms.	<p>I can use a computer to create a list.</p> <p>I can identify which materials are best for my rocket and describe their physical properties.</p> <p>I can identify different types of digital content (words and pictures).</p> <p>I can explain how a list made on a computer can be saved and shared more easily.</p>	Computer, create, digital content, list, materials, physical properties, saved, shared
	2 – To design a rocket using a graphics editing programme.	<p>I can open a graphics editing program.</p> <p>I can create a digital image using a graphics editor.</p> <p>I can save my digital image to the correct folder.</p>	annotate, components, create, designing, digital image, document, editing software, folder, graphics, materials, program, save.
	3 – To sequence a set of instructions	<p>I can put a set of instructions in the right order.</p> <p>I can identify the importance of instructions being in the right order.</p> <p>I know how to build a model rocket.</p>	algorithm, computer program, order, sequence.
	4 – To build a rocket	<p>I can build a rocket according to instructions.</p> <p>I can refer to my rocket design.</p> <p>I can take a clear photo of my finished rocket.</p> <p>I can add text to evaluate it.</p>	create, design, equipment, evaluate, instructions, materials, photo, rocket launch.
	5 – To test a design and record data.	<p>I can measure distances accurately.</p> <p>I can record data.</p>	cells, data, distance, input, measure, spreadsheet.

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		I can evaluate the success of my design.	
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Burnisto n Rocks	Unit Name: Digital Imagery	Strand: Creating Media		
	National curriculum objectives	Key Vocabulary		
	Use logical reasoning to predict the behaviour of simple programs.	background	editing software	screen
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	blurred	filter	search engine
	Recognise common uses of Information technology beyond school.	camera	image	sequence
	Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	clear	import	software
Unit Outcomes	crop	internet	storage space	
Plan a pictorial story using photographic images in sequence.	delete	keyword	visual effects	
Explain how to take clear photos.	device	online		
Take photos using a device.	digital camera	photograph		
Edit photos by cropping, filtering and resizing.	download	resize		
Search for and import images from the internet.	drag and drop	save as		
	edit			

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	<p>Explain what to do if something makes them uncomfortable online.</p> <p>Organise images on the page, orientating where necessary.</p>			
	Sequence of Learning	Success Criteria	Vocabulary	
	1 – To understand and create a sequence of pictures.	<p>I can explain what is happening in a pictorial story.</p> <p>I can recognise the importance of sequencing.</p> <p>I can plan my own pictorial story</p> <p>I know that sequencing is important in Computing.</p>	image, photograph, photo story, sequence.	
	2 – To take clear photos	<p>I can get down to the level of my character.</p> <p>I can look at the screen and check what is in frame.</p> <p>I can press the button carefully to ensure nothing changes.</p> <p>I can ensure that my surroundings are bright enough.</p> <p>I can identify that moving can create a blurred image.</p>	camera, delete, image, photograph.	
3 – To edit photos	I can explain that photos can be changed after they have been taken.	camera, crop, edit, editing software, image.		

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	<p>I can identify ways to improve my photo.</p> <p>I can crop, resize, and add a colour filter to my photo.</p>	
4 – To search for and import images	<p>I know images can be found online.</p> <p>I can think of a keyword to search with.</p> <p>I know what to do if I find something uncomfortable.</p>	<p>drag and drop, edit, image, import, internet, keyword, online, props, save as, search engine.</p>
5 – To create a photo collage.	<p>I can download the photos I want.</p> <p>I can organise them on to the page.</p> <p>I can resize and change the orientation of my images.</p> <p>I can add numbers to show their order.</p>	<p>collage, download, edit, images, orientation, photograph, props, resize.</p>



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Burnisto n Rocks	Unit Name: Introduction to Data	Strand: Data Handling		
	National curriculum objectives	Key Vocabulary		
	Use technology purposefully to create, organise store, manipulate and retrieve digital content.	bar chart	edit	resize
	Recognise common uses of information technology beyond school.	block graph	input	sort
		branching database	keyboard	table
		categorise	line graph	tally
		chart	mouse	values
Unit Outcomes	click and drag	information		
Represent animal-themed data in different ways, using objects and technology.	compare	label		
Log in and use mouse and keyboard skills to navigate the computer.	count	pictogram		
Represent the same data as a pictogram and a table or chart.	data	pie chart		
Collect data about minibeasts using a tally chart and represent their data digitally.	data record	process		
Click and drag objects to sort data using a branching database.	data collection	record		
Consider the types of input that would be used to gather different forms of data when designing an invention.	data representation			

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To represent data in different ways.	<p>I know that data can be shown in different ways.</p> <p>I can represent data in different ways.</p> <p>I can answer questions about the data using my representation.</p>	data, information, map, object, representation.
	2 – To use technology to represent data.	<p>I can use a mouse</p> <p>I can type using a keyboard</p> <p>I can create a pictogram that shows animal data</p>	bar chart, chart, label, line graph, pictogram, pie chart, resize, table.
	3 – To collect and record data.	<p>I can identify different minibeasts.</p> <p>I can record the number of different minibeasts I see.</p> <p>I can represent this data digitally.</p>	data, data collection, data record, digitally, information, minibeasts, represent, tally.
	4 – To sort data.	<p>I can identify and categorise different animals.</p> <p>I can identify questions to sort data in the most efficient way.</p> <p>I can create a branching database.</p>	branching database, categorise, data, identify, sort.
	5 – To design an invention to gather data.	<p>I recognise that computers understand different types of input.</p> <p>I can design a computerised invention to gather data.</p> <p>I can explain how my invention works.</p>	computer, data, data collection, data recording, information, input, text.

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Burniston Rocks	Unit Name: Online Safety	Strand: Online Safety		
	National curriculum objectives	Key Vocabulary		
	Recognise common uses of information technology beyond school .	app	online activity	screen time
	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.	appropriate	online experience	sharing online
		device	online interactions	stranger
	digital footprint	online safety	technology	
	feelings	personal information	trusted adult	
	going online	pop up	unkind	
	in-person interactions	posting online	website	
	internet	report		
Unit Outcomes				
Discuss what the internet is and how it can be used.	kindness	responsible digital citizen		
Recognise that the internet may affect mood or emotions.	offline activity			
Recognise how internet use can affect and upset others.				
Identify which information is appropriate to share and post online and which is not.				

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To recognise what the internet is and how to use it safely.	<p>I can identify when something makes me feel uncomfortable online.</p> <p>I know who to go to when I need help online.</p> <p>I can offer advice on how to stay safe online.</p>	device, going online, internet, online safety, pop up, responsible digital citizen, report, unkind
	2 – To identify how people's feelings and emotions can be affected by online content.	<p>I can suggest how a character might be feeling.</p> <p>I can identify a trusted adult and how they can help.</p> <p>I can share advice on ways to stay happy and safe online.</p>	device, internet, personal information, pop up, stranger, trusted adult.
	3 – To recognise how to treat others, both online and in person.	<p>I can describe how other people may feel in different situations.</p> <p>I can recognise how actions on the internet can affect others.</p> <p>I can identify that feelings are the same whether online or in the real world.</p>	feelings, in-person interactions, kindness online interactions
	4 - To recognise the importance of being careful when posting and sharing online.	<p>I can understand the meaning of 'sharing' and 'posting' information online.</p> <p>I can understand what 'digital footprint' means.</p> <p>I can identify my own digital footprint.</p>	app, appropriate, digital footprint, going online, posting online, sharing online, website.
	5 – To discuss ways to balance time spent online and offline.	<p>I can name offline and online activities I enjoy.</p> <p>I can identify how different activities make me feel.</p> <p>I can make a plan to balance my screen time with other offline activities.</p>	internet, online activity, online experience, offline activity, screen time, technology.

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Hayburn Wyke	Unit Name: Improving Mouse Skills (Y1 – 3 lessons) What Is A Computer? (Y2 – Full Unit)	Strand: Computing Systems and Networks		
	National curriculum objectives	Key Vocabulary		
	I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Log in	device	
	Recognise common uses of information technology beyond school.	Login	digital	
	Use technology safely and respectfully, keeping personal information private.	Log out / off Mouse	digital recorder	
	Unit Outcomes	Mouse pointer	electricity	
	Use computers more purposefully	Click	function	
Log in and navigate around a computer	Keyboard	input		
Drag, drop, click and control a cursor using a mouse	Tools	invention		
Use software tools to create art on the computer.	Screen	keyboard		
Name some computer peripherals and their function.	Password	laptop		
Recognise that buttons cause effects.	Account	monitor		
Explain that technology follows instructions.	Software	mouse		
Recognise different forms of technology.	Duplicate	output		
Design an invention which includes inputs and outputs.	Ctrl	paying till		
Explain the role of computers in the world around them.	battery	scanner		
	buttons	screen		
	camera	system		
		tablet		
		technology		

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Sequence of Learning	Success Criteria	Vocabulary
		computer desktop video wires
1 – To log in to a computer and access a website.	<p>I can recognise what we mean by a computer</p> <p>I can understand why we need to log into a computer.</p> <p>I can log in and out of a computer account.</p>	account, computer, log off, log on, mouse, password, predict, screen (monitor), software, tool.
2 – To develop mouse skills.	<p>I can navigate a computer using a mouse.</p> <p>I can understand what we mean by 'click' and 'drag'.</p> <p>I can use the fill and stamp tools in Sketchpad.</p>	click, clipart, drag, duplicate, explore, log off, redo, resize, undo, username.
3 – To use mouse skills to draw and edit shapes.	<p>I can click and drag objects to change their size or position.</p> <p>I can use a mouse to carefully position shapes.</p> <p>I can move shapes in front of or behind others.</p>	bring to the front, drag and drop, fill, layers, left-click, log of, outline, right-click, tool.
<p>(Year 2 – What Is A Computer Lesson 1) 4 – To recognise the parts of a computer.</p>	<p>I can name the key parts of a computer.</p> <p>I can explain the purpose of different computer parts.</p> <p>I can explain that a keyboard contains lots of buttons.</p>	buttons, computer, desktop keyboard, laptop, monitor, mouse
<p>(Year 2 – What Is A Computer Lesson 2) 5 – To recognise how technology is controlled.</p>	I can understand that people control technology.	

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		<p>I can understand that technology follows instructions.</p> <p>I can predict what technology will do.</p>	<p>device, input, output, robot, technology</p>
	<p>(Year 2 – What Is A Computer Lesson 3) 6 – To recognise technology</p>	<p>I can suggest what might have a computer inside.</p> <p>I can explain why I think this.</p> <p>I can suggest what the technology does.</p>	<p>battery, camera, computer, digital content, electricity, photograph, screen, tablet, technology</p>
	<p>(Year 2 – What Is A Computer Lesson 4) 7 – To create a design for an invention</p>	<p>I can include an input and output as part of my invention.</p> <p>I can explain how it works, including how to control it.</p> <p>I can label my design clearly.</p>	<p>design, input, invention, output, plan</p>
	<p>(Year 2 – What Is A Computer Lesson 5) 8 – To understand the role of computers.</p>	<p>I can explain where computers are used.</p> <p>I can suggest what their job is.</p> <p>I can understand that computers work together.</p>	<p>computer, digital recorder, role, scanner, system, technology, till, video.</p>



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Hayburn Wyke	Unit Name: Algorithms Unplugged	Strand: Programming		
	National curriculum objectives	Key Vocabulary		
	<p>Understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following precise and unambiguous instructions.</p> <p>Create and debug simple programs.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	Algorithm Automatic Bug Chunks Clear Code Debug Decompose Decomposition Device	Directions Input Instructions Manageable Motion Order Organise Output Precise Programming	Problem Robot Sensor Sequence Solution Specific Steps Tasks Virtual assistant
	Unit Outcomes			
	Explain what an algorithm is. Write clear algorithms. Follow an algorithm. Explain what inputs and outputs are. Create an achievable program. Decompose a design into steps. Identify bugs in an algorithm and how to fix them.			

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To understand what an algorithm is.	<p>I can explain that an algorithm is a set of instructions.</p> <p>I can understand that these instructions sometimes need to be carried out in order.</p> <p>I can understand there can be more than one way to solve a problem.</p>	algorithm, computer, instructions, order, solution, specific, tasks.
	2 – To follow instructions precisely to carry out an action.	<p>I can explain why an algorithm must be clear and precise.</p> <p>I can explain the problems a robot can have following our instructions.</p>	algorithm, instructions, bug
	3 – To understand that computers and devices around us use inputs and outputs.	<p>I can identify some input devices.</p> <p>I can identify some output devices.</p> <p>I can identify some devices that are both input and output devices.</p>	artificial intelligence, device, output, virtual assistant, computer, input, program.
	4 – To be able to understand and be able to explain what decomposition is.	<p>I can explain what decomposition is.</p> <p>I can understand how decomposition allows you to solve a problem more easily.</p> <p>I can explain how we use decomposition in our everyday lives.</p>	chunks, decompose, manageable, organising, problem.
	5 – To know how to debug an algorithm.	<p>I can spot bugs in algorithms.</p> <p>I can fix the error (debug it) and explain the problem it caused.</p>	algorithm, bug, code, correct, debug, directions.

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Hayburn Wyke	Unit Name: Programming Bee-Bot	Strand: Programming		
	National curriculum objectives	Key Vocabulary		
	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.	algorithm artificial intelligence Bee-Bot clear code debug filming	inputting instructions pause precise predict program tinker	video video recording
	Unit Outcomes			
Recognise cause and effect when pressing buttons on a Bee-Bot. Discuss and demonstrate how the Bee-Bot works. Record video ensuring everyone is in the shot. Give a a number of clear instructions in sequence. Program a Bee-Bot to reach a destination. Identify and correct mistakes in their programming.				

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To explore a new device	<p>I can 'tinker' with the buttons of a Bee-Bot to see what they do.</p> <p>I can complete a cycle of predict, test and review.</p>	algorithm, Bee-Bot, code, instructions
	2 – To create a demonstration video.	<p>I can create a video to explain how to use a Bee-Bot.</p> <p>I can explain what the buttons on a Bee-Bot do.</p> <p>I can show how the Bee-Bot moves when you press the different buttons.</p>	algorithm, Bee-Bot, code, demonstration, filming, video.
	3 – To plan and follow a precise set of instructions.	<p>I can follow verbal instructions.</p> <p>I can give precise instructions.</p> <p>I can check that the instructions being given are correct.</p>	algorithm, Bee-Bot, explain, explore, instructions, precise, video.
	4 – To program a device.	<p>I can personalise my Bee-Bot world.</p> <p>I can consider how the Bee-Bot can move from one place to another.</p> <p>I can plan a Bee-Bot route.</p> <p>I can program a Bee-Bot to follow my planned route.</p>	Bee-Bot, program
	5 - To create a program that tells a story.	<p>I can use programming to give the Bee-Bot clear instructions.</p> <p>I can debug my instructions if they go wrong by identifying and correcting the mistake.</p>	algorithm, Bee-Bot, debug, program.

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Hayburn Wyke	Unit Name: Programming Scratch Jr	Strand: Programming		
	National curriculum objectives	Key Vocabulary		
	Using logical reasoning to predict the behaviour of simple programs.	algorithm	icon	
	Create and debug simple programs.	animation	imitate	
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	blocks	instructions	
	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	bug	loop	
		button	'on tap'	
Unit Outcomes	CGI	programming		
Explore a new application independently.	Computer code	repeat		
Explain what the blocks on ScratchJr do and use them for a purpose.	code	ScratchJr		
Recognise a loop in coding and why it is useful.	debug	sequence		
Use a code to create an animation of an animal moving.	fluid	sound recording		
Use code to follow <i>and</i> create an algorithm.				
Program code to run 'on tap'.				
Explain the role of the blocks in a program they have created.				

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To explore a new application.	<p><i>I can predict what something new will do.</i></p> <p><i>I can explore something independently.</i></p> <p><i>I can explain what I found using ScratchJr.</i></p>	block, code, ScratchJr.
	2 – To create an animation	<p><i>I can use the programming blocks for a purpose.</i></p> <p><i>I can recognise a loop in programming.</i></p> <p><i>I can think about how animals move.</i></p> <p><i>I can use my programming skills to represent an animal moving.</i></p>	animation, code, loop, repeat
	3 – To use characters as buttons.	<p><i>I can design a musical instrument.</i></p> <p><i>I can program code to run 'on tap'.</i></p> <p><i>I can select appropriate blocks for my purpose.</i></p>	button, block, code
	4 – To follow and algorithm.	<p><i>I can use an algorithm to help with my programming.</i></p> <p><i>I can sequence the blocks appropriately.</i></p> <p><i>I can explain what each block in the program does.</i></p>	algorithm, block, code, loop, sequence.
	5 – To plan and use code to create an algorithm.	<p><i>I can explain what an algorithm is.</i></p> <p><i>I can choose the code to match my algorithm.</i></p> <p><i>I can use an algorithm to write a computer program.</i></p>	algorithm, code, program

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Computing Sequence of Learning – EYFS and Key Stage 1

Hayburn Wyke	Unit Name: Stop Motion		Strand: Creating Media		
	National curriculum objectives		Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.		animate	frames	
	Recognise common uses of information technology beyond school		animation	import	
	Use technology safely and respectfully, keeping personal information private.		animator	moving images	
			background	object	
			decompose	plan	
	Unit Outcomes				
	Create a flip book animation.		digital camera	save	
	Take clear, in-focus photographs using a digital camera.		duration	still images	
Upload images from the school network.		flipbook	upload		
Decompose a story into smaller parts to plan a stop motion animation.		focus			
Create stop motion animations with small changes between images					
Sequence of Learning		Success Criteria		Vocabulary	
1 – To understand what animation is.		I understand and explain what animation means.		animation, still images, moving images, flip book, frames, drawing.	

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		<p>I understand how to create a short animation using a flip book.</p> <p>I can talk about how animation began.</p>	
	2 – To understand what stop motion animation is.	<p>I can explain what 'stop motion' means</p> <p>I understand how to create a short animation using animation software</p> <p>I understand what 'onion skinning' is and how animators use it</p> <p>I can use onion skinning to make small changes to my object to make my animation smooth.</p>	stop motion, animation, digital device, frame, animator.
	3 – To take clear photographs using a digital camera.	<p>I can use a digital camera to take photographs</p> <p>I understand how to take a good photograph</p>	background, object, digital camera, animate, focus.
	4 – To create a stop motion animation.	<p>I can find and upload images from the school network.</p> <p>I can change the duration of my images.</p> <p>I can save my work.</p>	import, upload, save, duration animate.
	5 – To plan my stop motion animation.	<p>I can work collaboratively with others to plan an animation.</p> <p>I can think carefully about keeping my idea simple and easy to animate.</p> <p>I can decompose my story into smaller parts.</p>	animation, planning
	6 – To create a stop motion animation.	<p>I can use my planning sheet to structure my animation.</p> <p>I can work collaboratively.</p> <p>I can create an animation of at least 10 frames.</p>	debug, frames, duration, focus, evaluate, collaboration, fluid

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Hayburn Wyke	Unit Name: Introduction to Data	Strand: Data Handling		
	National curriculum objectives	Key Vocabulary		
	Use technology purposefully to create, organise store, manipulate and retrieve digital content.	bar chart	edit	resize
	Recognise common uses of information technology beyond school.	block graph	input	sort
		branching database	keyboard	table
Unit Outcomes	chart	line graph	tally	
Represent animal-themed data in different ways, using objects and technology.	click and drag	mouse	values	
Log in and use mouse and keyboard skills to navigate the computer.	compare	information		
Represent the same data as a pictogram and a table or chart.	count	label		
Collect data about minibeasts using a tally chart and represent their data digitally.	data	pictogram		
Click and drag objects to sort data using a branching database.	data record	pie chart		
	data collection	process		
	data representation	record		



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	Consider the types of input that would be used to gather different forms of data when designing an invention.			
	Sequence of Learning	Success Criteria		Vocabulary
	1 – To represent data in different ways.	<p>I know that data can be shown in different ways.</p> <p>I can represent data in different ways.</p> <p>I can answer questions about the data using my representation.</p>		data, information, map, object, representation.
	2 – To use technology to represent data.	<p>I can use a mouse</p> <p>I can type using a keyboard</p> <p>I can create a pictogram that shows animal data</p>		bar chart, chart, label, line graph, pictogram, pie chart, resize, table.
	3 – To collect and record data.	<p>I can identify different minibeasts.</p> <p>I can record the number of different minibeasts I see.</p> <p>I can represent this data digitally.</p>		data, data collection, data record, digitally, information, minibeasts, represent, tally.
	4 – To sort data.	<p>I can identify and categorise different animals.</p> <p>I can identify questions to sort data in the most efficient way.</p> <p>I can create a branching database.</p>		branching database, categorise, data, identify, sort.

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	5 – To design an invention to gather data.	<p>I recognise that computers understand different types of input.</p> <p>I can design a computerised invention to gather data.</p> <p>I can explain how my invention works.</p>	computer, data, data collection, data recording, information, input, text.
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Hayburn Wyke	Unit Name: Online Safety	Strand: Online Safety		
	National curriculum objectives	Key Vocabulary		
	<p>Recognise common uses of information technology beyond school .</p> <p>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.</p>	<p>app</p> <p>appropriate</p> <p>device</p> <p>digital footprint</p> <p>feelings</p> <p>going online</p> <p>in-person interactions</p> <p>internet</p>	<p>online activity</p> <p>online experience</p> <p>online interactions</p> <p>online safety</p> <p>personal information</p> <p>pop up</p> <p>posting online</p> <p>report</p>	<p>screen time</p> <p>sharing online</p> <p>stranger</p> <p>technology</p> <p>trusted adult</p> <p>unkind</p> <p>website</p>

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Unit Outcomes		kindness offline activity	responsible digital citizen	
Discuss what the internet is and how it can be used.				
Recognise that the internet may affect mood or emotions.				
Recognise how internet use can affect and upset others.				
Identify which information is appropriate to share and post online and which is not.				
Sequence of Learning		Success Criteria		Vocabulary
1 – To recognise what the internet is and how to use it safely.		<i>I can identify when something makes me feel uncomfortable online.</i> <i>I know who to go to when I need help online.</i> <i>I can offer advice on how to stay safe online.</i>		device, going online, internet, online safety, pop up, responsible digital citizen, report, unkind
2 – To identify how people's feelings and emotions can be affected by online content.		<i>I can suggest how a character might be feeling.</i> <i>I can identify a trusted adult and how they can help.</i> <i>I can share advice on ways to stay happy and safe online.</i>		device, internet, personal information, pop up, stranger, trusted adult.
3 – To recognise how to treat others, both online and in person.		<i>I can describe how other people may feel in different situations.</i> <i>I can recognise how actions on the internet can affect others.</i> <i>I can identify that feelings are the same whether online or in the real world.</i>		feelings, in-person interactions, kindness online interactions

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	4 - To recognise the importance of being careful when posting and sharing online.	<p>I can understand the meaning of 'sharing' and 'posting' information online.</p> <p>I can understand what 'digital footprint' means.</p> <p>I can identify my own digital footprint.</p>	app, appropriate, digital footprint, going online, posting online, sharing online, website.
	5 – To discuss ways to balance time spent online and offline.	<p>I can name offline and online activities I enjoy.</p> <p>I can identify how different activities make me feel.</p> <p>I can make a plan to balance my screen time with other offline activities.</p>	internet, online activity, online experience, offline activity, screen time, technology.

Ravensca r	Unit Name: What Is A Computer?	Strand: Computing Systems and Networks	
	National curriculum objectives	Key Vocabulary	
	<p>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p> <p>Recognise common uses of information technology beyond school.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	<p>Battery</p> <p>Buttons</p> <p>Camera</p> <p>Computer</p> <p>Desktop</p> <p>Device</p>	<p>Laptop</p> <p>Monitor</p> <p>Mouse</p> <p>Output</p> <p>Paying till</p> <p>Scanner</p>

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Unit Outcomes		Digital	Screen	
	<p>Name some computer peripherals and their function.</p> <p>Recognise that buttons cause effects.</p> <p>Explain that technology follows instructions.</p> <p>Recognise different forms of technology.</p> <p>Design an invention which includes inputs and outputs.</p> <p>Explain the role of computers in the world around them.</p>	<p>Digital recorder</p> <p>Electricity</p> <p>Function</p> <p>Input Invention</p> <p>Keyboard</p>	<p>System</p> <p>Tablet</p> <p>Technology</p> <p>Video</p> <p>Wires</p>	
Sequence of Learning	Success Criteria		Vocabulary	
1 – To recognise the parts of a computer.	<p>I can name the key parts of a computer.</p> <p>I can explain the purpose of different computer parts.</p> <p>I can explain that a keyboard contains lots of buttons.</p>		<p>buttons, computer, desktop, keyboard, laptop, monitor, mouse.</p>	
	I can understand that people control technology.		device, input, output, robot, technology	

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	2 – To recognise how technology is controlled.	<i>I can understand that technology follows instructions.</i>	
	3 – To recognise technology.	<i>I can predict what technology will do.</i>	battery, camera, computer, digital content, electricity, photograph, screen, tablet, technology, wire.
		<i>I can suggest what might have a computer inside.</i>	
		<i>I can explain why I think this.</i>	
	4 – To create a design for an invention.	<i>I can suggest what the technology does.</i>	design, input, invention, output, plan.
<i>I can include an input and output as part of my invention.</i>			
5 – To understand the role of computers.	<i>I can explain how it works, including how to control it.</i>	computer, digital recorder, role, scanner, system, technology, till, video.	
	<i>I can label my design clearly.</i>		
	<i>I can explain where computers are used.</i>		
		<i>I can suggest what their job is.</i>	
		<i>I can understand that computers work together.</i>	



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Ravensca r	Unit Name: Algorithms and Debugging	Strand: Programming			
	National curriculum objectives	Key Vocabulary			
	<p>Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.</p> <p>Create and debug simple programs.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	<p>Abstraction</p> <p>Algorithm</p> <p>Artificial intelligence</p> <p>Bug</p> <p>Clear</p> <p>Correct</p> <p>Data</p>	<p>Debug</p> <p>Decompose</p> <p>Error</p> <p>Key features</p> <p>Loop</p> <p>Predict</p> <p>Unnecessary</p>		
	Unit Outcomes				
	<p>Decompose a game to predict the algorithms.</p> <p>Give a definition for 'decomposition'.</p> <p>Write clear and precise algorithms.</p> <p>Create algorithms to solve problems.</p> <p>Use loops in their algorithms to make their code more efficient.</p> <p>Explain what abstraction is.</p>				

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Sequence of Learning	Success Criteria	Vocabulary
1 – To decompose a game to predict the algorithms that are used.	<p>I can understand what the terms decomposition and algorithm mean.</p> <p>I can decompose a game to predict algorithms.</p> <p>I can plan algorithms for a more complex game.</p>	<p>algorithm decomposition predict</p>
2 – To understand that computers can use algorithms to make predictions (machine learning)	<p>I can explain what an algorithm is.</p> <p>I can explain that computers use algorithms to make predictions.</p> <p>I can write a clear and precise algorithm.</p>	<p>algorithm artificial intelligence data key features</p>
3 – To plan algorithms that will solve problems.	<p>I can devise and create algorithms to solve problems.</p> <p>I can include loops in my algorithms (count controlled).</p> <p>I can visualise directions from a 2D environment.</p>	<p>algorithm loop</p>
4 – To understand what abstraction is.	<p>I can explain what abstraction is.</p> <p>I can give an example of when abstraction might be useful.</p>	<p>abstraction key features unnecessary</p>
5 – To understand what debugging is.	<p>I can understand the meaning of the word debugging.</p> <p>I can listen to my peer's verbal instructions.</p> <p>I can perform a task by following step by step instructions.</p>	<p>bug correct debug error</p>

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Ravensca r	Unit Name: Word Processing	Strand: Computing Systems and Networks		
	National curriculum objectives	Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Backspace	Keyboard shortcut	
	Use technology safely and respectfully, keeping personal information private.	Bold	Keyword	
	Recognise common uses of information technology beyond school.	Copy	Layout	
		Copyright	Navigate	
		Cut	Paste	
		Delete	Redo	
Unit Outcomes	Forward button	Search		
Explain which are the home row keys and how to find them for typing.	Highlight	Space bar		
Use the spacebar and backspace correctly.	Home row	Text		
Type and make simple alterations to text using buttons on a word processor.	Home screen Image	Text effects		
Search for, import and alter appropriate images for a text document.	Import	Touch typing		
Modify text in a document.	Italics	Underline		
Use copy and paste to copy text from one document to another.	Keyboard	Undo		
Explain what information is safe to be shared online.	Keyboard character	Word processing		

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To begin to learn to touch type	<p>I can find keys on a computer keyboard.</p> <p>I can type capital letters using 'shift'</p> <p>I can identify that the keyboard is an important input device.</p>	backspace, delete, keyboard, space bar, touch typing, word processing
	2 – To understand how to use a word processor.	<p>I can type a sentence into a word processor.</p> <p>I can select text and make it bold or italic.</p> <p>I can explain how to make other changes to a document.</p>	bold, highlight, italic, redo, underline, undo.
	3 – To understand how to add images to a text document.	<p>I can use keyboard shortcuts to alter text.</p> <p>I can search for and find an appropriate image.</p> <p>I can import and alter an image in a document.</p>	bold, back button, forward button, image, import, italic, layout, navigate, text, text effects.
	4 – To create a poetry book using sources from the internet.	<p>I can use text styles to create headings and subtitles.</p> <p>I can copy and paste text into a document.</p> <p>I can identify the importance of crediting source materials.</p>	author, copy, copyright, cut, keyword, paste, search.



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Ravensca r	Unit Name: Programming Scratch Jr	Strand: Programming		
	National curriculum objectives	Key Vocabulary		
	Using logical reasoning to predict the behaviour of simple programs.	algorithm	icon	
	Create and debug simple programs.	animation	imitate	
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	blocks	instructions	
	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	bug	loop	
	Unit Outcomes	button	'on tap'	
Explore a new application independently.	CGI	programming		
Explain what the blocks on ScratchJr do and use them for a purpose.	Computer code	repeat		
Recognise a loop in coding and why it is useful.	code	ScratchJr		
Use a code to create an animation of an animal moving.	debug	sequence		
Use code to follow <i>and</i> create an algorithm.	fluid	sound recording		
Program code to run 'on tap'.				
Explain the role of the blocks in a program they have created.				

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Sequence of Learning	Success Criteria	Vocabulary
1 – To explore a new application.	<p><i>I can predict what something new will do.</i></p> <p><i>I can explore something independently.</i></p> <p><i>I can explain what I found using ScratchJr.</i></p>	block, code, ScratchJr.
2 – To create an animation	<p><i>I can use the programming blocks for a purpose.</i></p> <p><i>I can recognise a loop in programming.</i></p> <p><i>I can think about how animals move.</i></p> <p><i>I can use my programming skills to represent an animal moving.</i></p>	animation, code, loop, repeat
3 – To use characters as buttons.	<p><i>I can design a musical instrument.</i></p> <p><i>I can program code to run 'on tap'.</i></p> <p><i>I can select appropriate blocks for my purpose.</i></p>	button, block, code
4 – To follow and algorithm.	<p><i>I can use an algorithm to help with my programming.</i></p> <p><i>I can sequence the blocks appropriately.</i></p> <p><i>I can explain what each block in the program does.</i></p>	algorithm, block, code, loop, sequence.
5 – To plan and use code to create an algorithm.	<p><i>I can explain what an algorithm is.</i></p> <p><i>I can choose the code to match my algorithm.</i></p> <p><i>I can use an algorithm to write a computer program.</i></p>	algorithm, code, program

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Ravensca r	Unit Name: Stop Motion		Strand: Creating Media		
	National curriculum objectives		Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.		animate	frames	
	Recognise common uses of information technology beyond school		animation	import	
	Use technology safely and respectfully, keeping personal information private.		animator	moving images	
			background	object	
			decompose	plan	
	Unit Outcomes				
	Create a flip book animation.		digital camera	save	
	Take clear, in-focus photographs using a digital camera.		duration	still images	
Upload images from the school network.		flipbook	upload		
Decompose a story into smaller parts to plan a stop motion animation.		focus			
Create stop motion animations with small changes between images					
Sequence of Learning		Success Criteria		Vocabulary	
1 – To understand what animation is.		I understand and explain what animation means.		animation, still images, moving images, flip book, frames, drawing.	

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	<p>I understand how to create a short animation using a flip book.</p> <p>I can talk about how animation began.</p>	
2 – To understand what stop motion animation is.	<p>I can explain what 'stop motion' means</p> <p>I understand how to create a short animation using animation software</p> <p>I understand what 'onion skinning' is and how animators use it</p> <p>I can use onion skinning to make small changes to my object to make my animation smooth.</p>	stop motion, animation, digital device, frame, animator.
3 – To take clear photographs using a digital camera.	<p>I can use a digital camera to take photographs</p> <p>I understand how to take a good photograph</p>	background, object, digital camera, animate, focus.
4 – To create a stop motion animation.	<p>I can find and upload images from the school network.</p> <p>I can change the duration of my images.</p> <p>I can save my work.</p>	import, upload, save, duration animate.
5 – To plan my stop motion animation.	<p>I can work collaboratively with others to plan an animation.</p> <p>I can think carefully about keeping my idea simple and easy to animate.</p> <p>I can decompose my story into smaller parts.</p>	animation, planning
6 – To create a stop motion animation.	<p>I can use my planning sheet to structure my animation.</p> <p>I can work collaboratively.</p> <p>I can create an animation of at least 10 frames.</p>	debug, frames, duration, focus, evaluate, collaboration, fluid

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Ravensca r	Unit Name: International Space Station		Strand: Data Handling		
	National curriculum objectives		Key Vocabulary		
	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.		Algorithm	Interpret	
			Astronaut	Laboratory	
Unit Outcomes		Data	Monitor		
Describe and explain how astronauts' survival needs are met aboard the ISS.		Digital	Planet		
Identify and digitally draw items which fulfil basic human needs when aboard the ISS.		Digital content	Satellite		
Read the correct temperature on a thermometer.		Experiment	Sensor		
Design a display showing everything that needs to be monitored by sensors on the ISS.		Galaxy	Space		
Create an algorithm that addresses all plants' needs.		Insulation	Temperature		
Explain how space exploration can benefit life on Earth.		Interactive map	Thermometer		
Read data to identify whether a planet might be habitable.		International Space Centre	Water reservoir		
		International Space Station			

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	Sequence of Learning	Success Criteria	Vocabulary
	1 – To understand how computers can help humans survive in space.	<p>I can consider human survival needs.</p> <p>I can retrieve digital content from an interactive map.</p> <p>I can consider how a computer is used to monitor data relating to human survival needs.</p>	digital content, interactive map, International Space Station, satellite, space, survival.
	2 – To create a digital drawing of essential items for life in space.	<p>I know the items that astronauts need to survive in the habitat of the ISS.</p> <p>I can use mouse and keyboard skills to draw and add text to a project.</p> <p>I can identify the importance of exercise, eating healthily and staying clean.</p> <p>I can consider how computers would monitor items on the ISS.</p>	astronaut, dehydrated food, essential, leisure, monitor, rehydrate, sensor, survival, transport.
	3 – To understand the role of sensors on the ISS.	<p>I can read temperatures using a thermometer.</p> <p>I understand that sensors monitor the ISS to make sure the astronauts are safe and healthy.</p> <p>I can design a display to show the data that the sensors collect.</p>	air conditioning, ammonia, astronaut, crew, data, insulation, monitor, sensor, temperature, urine, waste water.
	4 – To create an algorithm for growing a plant in space.	<p>I know plants need to grow.</p> <p>I can create an algorithm for growing a plant.</p> <p>I can explain how space exploration benefits human life on Earth.</p>	algorithm, astronaut, data, experiment, galaxy, laboratory, monitor, sensors, space exploration, water reservoir.

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	5 – To interpret data.	<p>I know that water is very important to life on Earth.</p> <p>I can interpret data.</p> <p>I can identify temperatures within a range to decide if they are a Goldilocks planet.</p>	data, Goldilocks zone, interpret, temperature.
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Ravensca r	Unit Name: Online Safety		Strand: Online Safety		
	National curriculum objectives		Key Vocabulary		
	Use technology safely, respectfully, and responsibly		accepting	personal	
	Recognise acceptable/unacceptable behaviour.		consent	information	
	Identify a range of ways to report concerns about content and contact.		denying	pop-up	
		permission	pressure		
		fake	private information		
Unit Outcomes		giving permission	real		
Explain what is meant by online information.		offline	reliable		
Recognise what information is safe to be shared online.		online	sharing online		
Explain why we need passwords and what makes a strong password.		password	source		
		permission	trusted adult		

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	Understand that they need to ask permission before sharing content online and explain why.			
	Understand that they have the right to deny their permission to information about them being shared online.			
	Say who they can ask for help with online worries.			
	Use some strategies to work out if online information is reliable or not.			
	Sequence of Learning	Success Criteria	Vocabulary	
	1 – To decide which information is safe to share online.	<p>I can explain what online information is.</p> <p>I can explain what information is safe to share online.</p> <p>I can recognise that information shared online stays there forever.</p> <p>I can identify who to talk to if something is shared that makes me feel sad or worried.</p>	consent, offline, online, permission, personal information, sharing online, trusted adult.	
	2 – To practise keeping information safe and private online.	<p>I can identify why passwords are used.</p> <p>I can develop a strong password.</p> <p>I can classify information as private.</p> <p>I can explain how to keep information private online.</p>	password, personal information, private information	
	3 – To recognise when to deny permission online.	I can identify what denying permission means.	accepting, denying permission, giving permission, permission, pressure, trusted adult.	

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		<i>I can name ways to get help if I feel pressured online.</i>	
		<i>I can explain why I should deny permission.</i>	
	4 – To recognise that not everything online is true.	<i>I can identify whether information is true or false.</i> <i>I can explain why people may post things online that are not true.</i> <i>I can check the reliability of online information.</i>	fake, pop-up, real, reliable, source.

