## **Birchwood Computing Curriculum Map**

Year	Substantive Knowledge	Disciplinary Knowledge	Vocabulary	Resources
Group Reception Autumn 1	Coding and Computational Thinking  -Know that an algorithm is a sequence of instructions.  -Know that debug means to find and correct errors.	Coding and Computational Thinking -Give instructions for Head, shoulders, Knees and ToesOrder pictures and 'debug' when there are errors.	instructions, algorithm	Barefoot – Busy Bodies
	Online Safety Know that online or offline, that anyone can say 'no' / 'please stop' / 'I'll tell' / 'I'll ask' to somebody who makes them feel sad, uncomfortable, embarrassed or upset.	Online Safety  - Discuss elements of online life that might make them feel sad, uncomfortable, embarrassed or upset.  -Discuss scenarios and what you would do to make sure you were safe.	online, safety	Project Evolve – Self Image and Se Identity
Reception Autumn 2	Coding and Computational Thinking Garlands Galore -Know that patterns are a sequence that repeats.	Coding and Computational Thinking Garlands Galore -Describe patterns seenIdentify different types of pattern (AB, AAB etc)	pattern, repeating, sequence	Barefoot - Awesome Autumn (Garlands Galore and Leaf Labyrinth)
	Leaf Labyrinth -Know that a maze can be navigated by giving directionsKnow that that there are multiple ways to travel through a mazeKnow that an algorithm is a sequence of instructions.	Leaf Labyrinth -Create a maze using autumn leavesDescribe the position of the leaves using positional languageFind the quickest route through a mazeGive instructions to travel through a maze.	algorithm, debug, maze, position, in front of, next to, behind,	
	Online Safety -Know that online information is shared over the internet and can include apps, games and blogsKnow that it can be unsafe to share personal information online.	Online Safety -Identify ways that you can put information on the internetDescribe ways that some people can be unkind onlineOffer examples of how this can make others feel.	online, internet, personal information	Project Evolve – Online Reputatio Project Evolve -Online Bullying
Reception Spring 1	Coding and Computational Thinking Snowman -Know that patterns have rules.	Coding and Computational Thinking Snowman -Continue a patternCreate patterns and explain the ruleMake changes and fixes to the pattern if needed.	pattern, repeating, sequence, <b>fixes</b>	Barefoot – Winter warmers (All Snowman activities) Project Evolve -Online Relationships
	Online Safety -Know that work I create belongs to meKnow ways in which the internet can be used to communicate.	Online Safety -Name my work so that others know it belongs to meGive examples of how I (might) use technology to communicate with people I know.	communicate	Project Evolve – Copyright and Ownership

Reception	Coding and Computational Thinking	Coding and Computational Thinking	algorithm, debug,	Barefoot – Springtime
Spring 2	Seed Sequences	Seed Sequence	order,	(Seed Sequences and Junk
	Know that algorithms can be broken down into steps.	-Sequence pictures to plant seeds.	instructions,	Scarecrows)
		-Follow pictorial instructions to plant seeds.		
	Scarecrows	Scarecrows		
	-Know that plans can be adapted to improve the outcome.	-Identify the main features of a scarecrow.		
		-Design a scarecrow including key features.		
		-Add labels.		
		-Create a scarecrow following the plan.		
		-Ignore information which is not important to the process.		
		-Adapt plans if required.		
	Online Safety	Online Safety		
	-Know rules that help keep us safe and healthy in and beyond the home when	-Give example of rules to stay safe when using technology (playing games with an		Project Evolve – Health Wellbeing
	using technology.	adult, asking before downloading an app etc.	rules, technology	and Lifestyles
Reception	Coding and Computational Thinking	Coding and Computational Thinking	Sources, app,	Barefoot - Boats Ahoy
Summer 1	What is a boat?	What is a boat?	video, vice	(What is a Boat? and Boat Roleplay)
	-Know that you can find out information from different sources (books, video,	-Find out about boats from a range of sources.	description	
	apps etc).	-Identify similarities and differences between different boats.		
	-Know how to use an iPad to access apps.			
		Boats Roleplay		
	Boats Roleplay	-Create a role play boat as a team.		
	-Know how to record video and sound using an iPad.	-Record creations and voice descriptions using an iPad		
	Online Safety	Online Safety		
	-Know examples of my personal information (e.g. name, address, birthday, age,	-Identify some simple examples of my personal information (e.g. name, address,		
	location).	birthday, age, location).	personal	
	-Know that personal information can be shared with trusted people.	-Describe who would be trustworthy to share this information with; I can explain	information,	Project Evolve – Privacy and
	-know that personal information can be shared with trusted people.	why they are trusted.	trusted	Security
		why they are trusted.	trusteu	Security
Reception	Coding and Computational Thinking	Coding and Computational Thinking	combine,	Barefoot – Summer Fun
Summer 2	Seaside Tangram	Seaside Tangram	tangram, adapt.	(Seaside Tangram and Colour
	-Know that designs can be changed and adapted to improve them.	-Combine shapes to create a seaside picture.		Collection)
		-Arrange shapes and adapt design, testing and evaluating different outcomes.		,
	Colour Collection	Colour Collection	Collect, organise,	
	-Know that objects can be organised and sorted in different ways.	-collect, organise and group items.	group, pictogram.	
	-Know how to create a pictogram.	-Use items to create a pictogram.		
	Online Safety	Online Safety		
	-Know that the internet can be used to find answers to questions.	-Talk about how to use the internet as a way of finding information online.	internet, online,	Project Evolve – Managing online
	-Know that different devices can be used to find out information.	-Identify devices I could use to access information on the internet.	device	information

Year 1 Autumn 1	Computing Systems and Networks -Know how to log in safelyKnow how to find saved work in the Online Work area and find teacher commentsKnow how to search Purple Mash to find resourcesKnow how to add pictures and text to workKnow how to open, save and printKnow the importance of logging-out.	Computing Systems and Networks -Log into Purple MashAdd pictures and text to a documentSave and print workOpen a saved fileLog out of Purple MashExplore the Tools and Games section of Purple Mash.	alert, avatar, button, device, filter, home screen, icon, login, logout, menu, notification, password, private, tools, saving, search, textbox, typing.	Purple Mash – Exploring Purple Mash
	Online Safety -Know that there may be people online who could make someone feel sad, embarrassed or upsetKnow that trusted adults can help if you feel unsafe online.	Online Safety -Give examples of when and how to speak to a trusted adult and how they can help, if something happens that makes me feel sad, worried, uncomfortable or frightened.	trusted adult	Project Evolve – Self Image and Self Identity
Year 1 Autumn 2	Information Technology -Know that data can be represented in picture formatKnow that a pictogram is a type of graph that shows information using pictures.	Information Technology -Contribute to a class pictogramUse a pictogram to record the results of an experiment Interpret a pictogram saying what information is knownCollect data and record resultsRecord results in a pictogram.	collect, compare, data, pictogram, results, title, totals, visual.	Purple Mash – 1.3 Pictograms (3 lessons)
	Online Safety -Know that information can stay online and can be copiedKnow that personal information should not be shared online.	Online Safety -Describe what information I should not put online without asking a trusted adult firstDescribe how to behave online in ways that do not upset others and can give examples.	personal information	Project Evolve – Online Reputation Project Evolve -Online Bullying
Year 1 Spring 1	Coding and Computational Thinking  -Know how to follow and create simple instructions on the computer.  -Know that the order in which instructions are given may affect the results.  -Know that debugging can be used to solve problems with an algorithm.	Coding and Computational Thinking  -Log in to Purple Mash using their own login.  -Add their name to a picture they created on the computer.  -Consider how the order of instructions affects the result.  -Use Monster Hop to follow algorithms, guiding a partner using precise instructions.  -Debug errors.  -Investigate routes through Path Puzzler, aiming to find the most precise route.  -Save work into the My Work folder in Purple Mash.  -Find their saved work in the Online Work area of Purple Mash.  -Use the different icons to add pictures and text to their work.  -Log out of Purple Mash when they have finished using it.	algorithm, code, debugging, instructions, program.	Coding and computational thinking activities (resources on shared area)  Hokey Cokey song: https://www.youtube.com/ watch?v=TMCthi3pFEQ  https://apps.apple.com/gb/app/ path-puzzler/id600530552
	Online Safety  -I know we can encounter a range of things online including things we like and don't like as well as things which are real or make believe / a jokeI know how to get help from a trusted adult if we see content that makes us feel sad, uncomfortable worried or frightened.	Online Safety -Give simple examples of how to find information using digital technologies, e.g. search engines, voice activated searchingGive examples of when I should ask permission to do something online and explain why this is importantUse the internet with adult support to communicate with people I know (e.g. video call apps or services)Explain why it is important to be considerate and kind to people online and to respect their choicesExplain why things one person finds funny or sad online may not always be seen in the same way by others.	digital technology, search engine, voice activation	https://apps.apple.com/us/app/c upcake-doodle/id681277169  Project Evolve -Online Relationships  Project Evolve - Copyright and Ownership

Va - : 4	Information Tasksalam	Information Technology	anlaulate ::"	Durale Mach 10 Countries
Year 1 Spring 2	Information Technology -Know what a spreadsheet program looks likeKnow how to enter data into spreadsheet cellsKnow how to use 2Calculate image tools to add clipart to cellsKnow how to use 2Calculate control tools: lock, move cell, speak and count.	Information Technology -Add clipart to a spreadsheetUse the 'move cell' tool so that images can be dragged around the spreadsheetUse the 'lock' tool to prevent changes to cellsGive images a value that the spreadsheet can use to count themAdd the count tool to count itemsAdd the speak tool so that the items are counted out loud.	calculate, cell, Clip-Art, column, count tool, data, delete, image, lock cell, row, select, spreadsheet, value.	Purple Mash — 1.8 Spreadsheets (3lessons)
	Online Safety -Know that rules may change depending on where you are, who you are with and what you are doing.	Online Safety -Explain rules to keep myself safe when using technology both in and beyond the home.	rules, technology	Project Evolve – Health Wellbeing and Lifestyles
Year 1 Summer 1	Coding and Computational Thinking  -Know what the buttons on a floor robot do (directions, clear memory and run).  -Know that algorithms need to be 'precise' in order for them to work correctly.  -Know that a robot moves a fixed distance for an individual command.  -Know that 'debugging' means to find and fix errors in an algorithm.  -Know that there is more than one solution to a problem but some will be more efficient.  Online Safety  -Know that passwords are used to protect information, accounts and devices.	Coding and Computational Thinking -Explain what a given command will doCombine 'forwards' and 'backwards' commands to make a sequenceCombine four direction commands to make sequencesPlan a simple programFind more than one solution to a problem.  Online Safety -Recognise more detailed examples of information that is personal to someone (e.g. where someone lives and goes to school, family names).	algorithm, program, Bee- Bot/Blue-Bot, forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, route, plan, trusted adult, password.	Teach Computing – 1.3 - Programming [A] Moving a Robot (6 lessons) Bluebots/Beebots  Project Evolve – Privacy and
Year 1 Summer 2	Information Technology -Know how to add animation to a storyKnow how to add sound to a story, including voice recording and music the	-Explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others.  Information Technology -Use the different drawing tools to create a picture on the page. add text to a page.	personal information  save, text, animation, background, Clip-	Security  Purple Mash 1.6 Animated Stories (5 lessons)
	children have composedKnow how to add backgrounds and copy and paste pages.	-Add an animation to a pagePlay the pages created. add a sound to the page. add voice recording to the page. create music for a page. add a background to the page change the font style and size.	Art, gallery, copy, drop-down menu, E-book, edit, eraser, font, overwrite, paste, redo, undo.	
	Online Safety -Know that work I create using technology belongs to meKnow that work created by others does not belong to me even if I save a copyKnow that saving using an appropriate file name will make work easier to find in the future.	Online Safety -Explain why work belongs to me (e.g. 'I designed it' or 'I filmed it'')Save my work under a suitable title / name so that others know it belongs to me (e.g. filename, name on content).	belong, <b>file name</b>	Project Evolve – Managing online information

V2	Constitute Contains and Nationalis	Comparities Contains and Nationalis	:f	Tarak Camandian Camada
Year 2	Computing Systems and Networks  Know what information technology (IT) is	Computing Systems and Networks  Recognise the uses and features of information technology	information	Teach Computing -Computer
Autumn 1	-Know what information technology (IT) is.	-Recognise the uses and features of information technology.	technology,	Systems and Networks – IT Around
	-Know how IT can help them at school and beyond.	-Identify the uses of information technology in the school.	barcode, scanner	Lessons 1-4 only
	-Know the purpose of different IT in school (printer, computer, sign in system	-Identify information technology beyond schoolExplain how information technology helps us.		
	etc).			
	-Know uses of IT in environments beyond school (adverts, receipts, parking	-Explain how to use information technology safely.		
	tickets). Online Safety	Online Safety	online identity,	Project Evolve – Self Image and Self
	-Know that identity online can be copied, modified or altered.	-Demonstrate how to make responsible choices about having an online identity,	copied, modified,	Identity
	-know that identity offline can be copied, modified of aftered.		altered	lidentity
Year 2	Information Technology	depending on context.  Information Technology		Purple Mash – 2.7 Making Music (3
Autumn 2	Information Technology  (Link to V4.5 symmer 2 asimpted story books)	-Use the different sounds within 2Sequence to create a tune.	beat, compose,	
Autumn 2	(Link to Y1 Summer 2 animated story books)	·	note, tune, sound	lessons)
	-Know how to make music digitally using 2Sequence.	-Explore how to speed up and slow down tunes.	effect, speed,	
	-Know how to edit and combine sounds using 2Sequence.	-Understand what happens to the tune when sounds are moved.	tempo, volume, soundtrack	
	-Know how to upload a sound from a bank of sounds into the Sounds section.	-Consider how music can be used to express feelings.	soundtrack	
	-Know how to record and upload environmental sounds into Purple Mash.	-Change the volume of the background sounds.		
		-Edit and refine composed music.		
		-Create, uploaded and used their own recorded sound.		
	Online Sefety	Online Cafety		
	Online Safety  Know who to talk to if compething has been not online without consent or if it is	Online Safety -Describe how anyone's online information could be seen by others.	hullying shared	Project Evalue Online Penystation
	Know who to talk to if something has been put online without consent or if it is	· · · · · · · · · · · · · · · · · · ·	bullying, shared	Project Evolve – Online Reputation
	incorrect.	-Explain what bullying is, how people may bully others and how bullying can make		Desired Foot of Oalting Bull in
	-Know that information shared online can last a long time.	someone feel.		Project Evolve -Online Bullying
	-Know that information shared online can be seen by others.	-Explain why anyone who experiences bullying is not to blame.		
V2	Coding and Committational Thinking	-Talk about how anyone experiencing bullying can get help.	:	Donale Mach 2.1 Coding (CDACH
Year 2 Spring 1	Coding and Computational Thinking -Know what an algorithm is.	Coding and Computational Thinking -Plan an algorithm that includes collision detection.	instructions, action, algorithm,	Purple Mash – 2.1 Coding (CRASH CORSE) (6 lessons)
Spring 1	-Know what an algorithm is.  -Know how to create a computer program using an algorithm.	-Plan an algorithm that includes collision detectionCreate a program using a given design.	background,	Project Evolve -Online
	-Know that algorithms follow a sequence.	-Create a program using a given design.  -Design an algorithm that follows a timed sequence.	button,	Relationships
	-Know that different objects have different properties.	-Create a program using collision detection.	command,	Relationships
	-Know what different events do in code.	-Read blocks of code and predict what will happen when it is run.	collision	
	-Know the function of buttons in a program.	-Create a program that uses a timer-after command.	detection, debug	
	-Know how to debug simple programs.	-Predict what will happen in a program that includes a timer-after command.	object, output,	
	-know now to debug simple programs.	-Use different events in their program to make objects move.	run, sequence,	
		-Create a computer program that includes different object types.	test, timer.	
		-Modify the attributes (properties) of a button to fit their program design.	test, timer.	
		-Use a design document to start debugging a program.		
		ose a design document to start desidabling a program.		
	Online Safety	Online Safety		
	-Know that content on the internet may belong to other people.	-Give examples of how someone might use technology to communicate with others		Project Evolve – Copyright and
	-Know who I should ask before sharing things about myself or others online.	they don't also know offline and explain why this might be risky. (e.g. email, online	permission,	Ownership
	-Know can help me if something happens online without my consent.	gaming, a pen-pal in another school / country).	consent	p
	The state of the state o	-Describe different ways to ask for, give, or deny my permission online and can	23.00.0	
		identify who can help me if I am not sure.		
		-Explain why I have a right to say 'no' or 'I will have to ask someone'. I can explain		
		who can help me if I feel under pressure to agree to something I am unsure about		
		or don't want to do.		
		-Explain how it may make others feel if I do not ask their permission or ignore their		
		answers before sharing something about them online.		
		-Explain why I should always ask a trusted adult before clicking 'yes', 'agree' or		
		'accept' online.		
		accept chimic		

Year 2	Information Technology	Information Technology	row, cell, column,	Purple Mash – 2.3 Spreadsheets (4
Spring 2	(Link to Year 1 Autumn 2 Pictograms and Year 1 Spring 2 spreadsheets)	-Create a money counting spreadsheet.	block graph,	lessons)
- 6	Know how to use 2Calculate image, lock, move cell, speak and count tools	-Copy and paste equations.	coins, copy, count	,
	-Know how to copy and paste in 2Calculate.	-Calculate totals using formulas.	tool, cut, data,	
	Know how to use the totalling tools.	-Use the 2Calculate equals tool to check calculations.	drag, equals,	
	-Know how to produce graphs using 2calculate.	-Create graphs to show information.	value, label,	
	Know now to produce graphs using zearcalate.	Create graphs to show information.	paste, price,	
			table, toolbox,	
	Online Safety	Online Safety	total.	
	-Know how those rules / guides can help anyone accessing online technologies.	-Explain simple guidance for using technology in different environments and	totai.	
	-Know those rules / guides can help anyone accessing online technologies.  -Know that rules for accessing technologies may be different in different places	settings e.g. accessing online technologies in public places and the	network	Project Evolve – Health Wellbeing
		home environment.	Hetwork	and Lifestyles
	(public networks and home networks).	nome environment.		and Lifestyles
Year 2	Coding and Computational Thinking	Coding and Computational Thinking	instruction,	Teach Computing – 1.3 -
Summer 1	(link to Year 1 Autumn 1 exploring Purple Mash and Year 1 Summer 2 Animated	To describe a series of instructions as a sequence.	sequence, clear,	Programming [A] Robot
Juliller 1	stories)	To explain what happens when we change the order of instructions.	unambiguous,	Algorithms (6 lessons)
		· · · · · · · · · · · · · · · · · · ·	•	Aigoritimis (o lessons)
	-Know that computers can only follow clear and unambiguous instructionsKnow the importance of the order of instructions within a sequence.	To use logical reasoning to predict the outcome of a program.	algorithm,	Poobats/Pluobats
	· ·	To explain that programming projects can have code and artwork.  To design an algorithm.	program, order,	Beebots/Bluebots
	-Know that design in programming not only includes code and algorithms, but	8 8	prediction,	
	also artefacts related to the project, such as artwork.	To create and debug a program that I have written.	artwork, design,	
	-Know that a program needs to have a set outcome.		route, mat,	
	-Know that decomposition is breaking a task down into different chunk.		debugging,	
			decomposition	
	Online Safety	Online Safety		
	Know that passwords can be used to protect information, accounts and devices.	-Explain and give examples of what is meant by 'private' and 'keeping things		
	-Know what makes a good password.	private'.	password, device	Project Evolve – Privacy and
	-Know that people may have devices in their homes connected to the internet	-Describe and explain some rules for keeping personal information private (e.g.		Security
	(lights, toys, televisions)	creating and protecting passwords).		
		-Explain how some people may have devices in their homes connected to the		
		internet and give examples (e.g. lights, fridges, toys, televisions).		
Year 2	Information Technology	Information Technology	clip-art, eCollage,	Purple Mash -2.6 Creating Pictures
Summer 2	-Know the functions of the 2Paint a Picture tool.	-Use 2Paint a Picture to art based upon an artist.	fill, horizontal,	(5 lessons)
	-Know that art can be created in the style of famous artists using digital	-Use 2Paint a Picture to create art by repeating patterns in a variety of ways.	line, palette,	
	technologies.	-Combine more than one effect in 2Paint a Picture to enhance patterns	rotated, stamps,	
		-Use the eCollage function in 2Paint a Picture to create surrealist art using drawing	style, symmetry,	
		and clipart.	vertical	
	Online Safety	Online Safety		
	-Know how to use key words to generate results in a search engine.	-Use simple keywords in search engines.		
	-Know how to navigate a simple webpage to get to information I need (e.g.	-Navigate a webpage to get required information.	search engines,	Project Evolve – Managing online
	home, forward, back buttons; links, tabs and sections).	-Explain the difference between things that are imaginary, 'made up' or 'make	voice activated	information
	Know what voice activated searching is and how it might be used, and know it is	believe' and things that are 'true' or 'real'.	searching	
	not a real person (e.g. Alexa, Google Now, Siri).			
	-Know that some information I find online may not be real or true.			

Year 3	Computing Systems and Networks	Computing Systems and Networks	device, network,	Teach Computing -Computer
Autumn 1	(Links to Y2 Autumn 1 -IT around us)	-Explain how digital devices function.	process, input,	Systems and Networks -Connecting
	-Know the relationship between input, process and output.	-Identify input and output devices.	output,	Computers
	-Know when is most appropriate to complete a task digitally or non-digitally.	-Explain how a computer network can be used to share information.	component,	
	-Know the benefit of connecting digital devices to allow information to be shared	-Explore how digital devices can be connected.	server, wireless	
	between users and systems.	-Recognise the physical components of a network.	access point	
	-Know the key components of a network (server, wireless access points).	needs in the physical components of a network.	decess point	
	Online Safety	Online Safety		
	-Now that people might change their identity online.	-Explain what is meant by the term 'identity'.		
		-Explain how people can represent themselves in different ways online.	avatar, online,	Project Evolve – Self Image and Self
		-Explain ways in which someone might change their identity depending on what	identity, social	Identity
		they are doing online (e.g. gaming; using an avatar; social media) and why.	media	
Year 3	Information Technology	Information Technology	Keys, posture,	Purple Mash -3.4 – Touch Typing (4
Autumn 2	-Know correct way to sit at the keyboard.	-Begin to touch type the home, bottom, and top rows.	space bar, typing.	lessons)
7.0000000	-Know how to use the home, top and bottom row keys.	-Use two hands to type the letters on the keyboard.	opare aa., typg.	
	-Know that touch typing is an efficient way to record.	-Touch type using the left hand.		
	This is that to ask typing to an emotion may to record	-Touch type using the right hand.		
		-Practise typing with the left and right hand.		
		Tractise typing with the left and right halfa.		
	Online Safety	Online Safety		
	-Know what online bullying may look like.	-Describe appropriate ways to behave towards other people online and why this is	Bullying, online,	Project Evolve – Online Reputation
	-Know that knowing someone online might be different to knowing someone	important.	offline,	Troject Evolve Ominie Nepatation
	offline.	-Give examples of how bullying behaviour could appear online and how someone	permission	Project Evolve -Online Bullying
	-Know that it is important to gain permission before sharing things online.	can get support.	permission	Troject Evolve -Offiline Bullying
	-know that it is important to gain permission before sharing things online.	-Describe ways people who have similar likes and interests can get together online.		
		-Explain what it means to 'know someone' online and why this might be different		
		from knowing someone offline.		
		_		
		-Explain why someone may change their mind about trusting anyone with something if they feel nervous, uncomfortable or worried.		
		-Explain the importance of giving and gaining permission before sharing things		
		online; how the principles of sharing online is the same as sharing offline e.g. sharing images and videos.		
Year 3	Coding and Computational Thinking	Coding and Computational Thinking	Algorithm, code,	Purple Mash – 3.1 -Coding (6
Spring 1	(Links to Y2 Spring 1 Coding)	-Use a flowchart to create a computer program	debug, collision	lessons)
Spring 1	-Know what a flowchart is and how flowcharts are used in computer	-Create a program that uses a timer-after command and timer-every command.	detection event.	Project Evolve -Online
	programming.	-Create a computer program that includes use of the repeat command.	command, action,	Relationships
	-Know that there are different types of timers and select the right type for	-Run, test and debug their programs.	input, output,	Relationships
	purpose.	-Plan their scene and code before they create their program.	run,	
	-Know how to use the repeat command.	Trail their scene and code before they create their program.	alert, events,	
	-Understand the importance of nesting.		flowchart,	
	-Know how to design and create an interactive scene.		implement,	
	-know now to design and create an interactive scene.		interval, nest,	
			repeat, right-	
	Online Safety	Online Safety	angle	
	-Know how to search for information about others online.	-Give examples of what anyone may or may not be willing to share about	uligic	
	-Know the need to be careful about sharing personal information online.	themselves online.	share, copy,	Project Evolve – Copyright and
	9.	-Explain the need to be careful before sharing anything personal.	permission,	Ownership
		- EXDIGITION THE TREE TO BE CATEFUL DELOTE STIATING ANVINING DETSONAL.	i permission.	OWNERSHID
	-Know that copying someone else's work from the internet without permission	1 , 3,		
	range	-Explain who someone can ask if they are unsure about putting something online.	internet	
	· · · · · · · · · · · · · · · · · · ·	1 , 3,		

Year 3	Information Technology	Information Technology	Data, equals, bar	Purple Mash – 3.3 Spreadsheets
Spring 2	(Links to Y2 Spring 2 Spreadsheets)  To use the symbols more than, less than and equal to, to compare values.  To use 2Calculate to collect data and produce a variety of graphs.  To use the advanced mode of 2Calculate to learn about cell references.	create a table of data on a spreadsheet. create charts and graphs from data. use the 'more than', 'less than' and 'equals' tools to compare different numbers describe a cell location in a spreadsheet using the notation of a letter for the column followed by a number for the row.	graph, cell address, less than, more than, pie chart, quiz tool, spinner tool, table.	(3lessons)
	Online Safety -Know that spending too much time on technology can have a negative impactKnow that online activities can have age restrictions to keep users safe.	Online Safety -Explain why spending too much time using technology can sometimes have a negative impact on anyone, e.g. mood, sleep, body, relationships; I can give some examples of both positive and negative activities where it is easy to spend a lot of time engaged (e.g. doing homework, games, films, videos)Explain why some online activities have age restrictions, why it is important to follow them and know who I can talk to if others pressure me to watch or do something online that makes me feel uncomfortable (e.g. age restricted gaming or web sites).	impact, age restrictions	Project Evolve – Health Wellbeing and Lifestyles
Year 3 Summer 1	Information Technology (Links to Year 1 Autumn 1 -Exploring Purple Mash) -Know how to pen and respond to an email using an address bookKnow how to add an attachment to an emailKnow what CC and BCC mean and how to use it.	Information Technology -Open an email and respond to itUse the search option in the address book to find a contact when sending an emailAttach work to an emailRead and respond to a series of email communications.	password, personal information, address book, attachment, BCC, CC, email, inbox, trusted contact.	Purple Mash- 3.5 Email (6 lessons)
	Online Safety -Know simple strategies for creating and keeping passwords privateKnow how connected devices can collect and share anyone's information with others.	Online Safety -Give reasons why someone should only share information with people they choose to and can trustExplain that if they are not sure or feel pressured then they should tell a trusted adult.	Private, password, trusted adult, connected device	Project Evolve – Privacy and Security
Year 3 Summer 2	Information Technology (Links to Year 2 Spring 2 spreadsheets)  - Know that databases can be used to sort information and answer questions.  -Know how to sort objects using just 'yes' or 'no' questions.  -Know how to complete a branching database using 2Question.	Information Technology -Use YES/NO questioning to play a simple game with a friendExplain why they choose a particular question to split their databaseContributed to a class branching databaseCreate and debug a branching database.	data, database, debugging. binary tree, branching database,	Purple Mash 3.6 Branching Databases (4 lessons)
	Online Safety -Know what autocomplete isKnow that the internet can be used to sell and buy thingsKnow that not all opinions shared may be accepted as true or fair by others (e.g. monsters under the bed).	Online Safety -Demonstrate how to use key phrases in search engines to gather accurate information online Explain how to choose the best suggestion from autocompleteExplain the difference between a 'belief', an 'opinion' and a 'fact. and can give examples of how and where they might be shared online, e.g. in videos, memes, posts, news stories etcDescribe and demonstrate how we can get help from a trusted adult if we see content that makes us feel sad, uncomfortable worried or frightened.	trusted adult, search engine, key phrase, autocomplete	Project Evolve – Managing online information

Year 4	Computing Systems and Networks	Computing Systems and Networks	Internet, network,	Teach Computing -Computer
Autumn 1	Links to Year 3 Autumn 1 Connecting Computers)  -Know networks physically connect to other networks.  -Know that websites can be shared via the World Wide Web (WWW).  -Know content of the WWW is created by people.	-Recognise how networked devices make up the internetDescribe how content can be added and accessed on the World Wide Web (WWW).	world wide web, content	Systems and Networks -The Internet – lessons 1-5 only.
	Online Safety -Know strategies for positive interaction onlineKnow reasons why someone might pretend to be someone else online.	Online Safety -Explain how my online identity can be different to my offline identityDescribe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive themExplain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this.	online, offline, identity, impact.	Project Evolve – Self Image and Self Identity
Year 4 Autumn 2	Information Technology (Links to Year 2 Summer 2 Creating Pictures) -Know how animations are created by handKnow how animation can be created in a similar way using the computerKnow how to add backgrounds and sounds to animations.	Information Technology  -Make a simple animation using 2Animate.  -Use the Onion Skin tool to create an animated image.  -Use backgrounds and sounds to make more complex and imaginative animations.  -Use ideas from existing 'stop motion' films to recreate their own animation.  -Share animation on the class display board and by blogging.	animation, FPS, frame, onion skinning, pause, stop-motion	Purple Mash -4.6 Animation (3 lessons)
	Online Safety -I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat)Know ways that some of the information about anyone online could have been created, copied or shared by others.	Online Safety -Recognise when someone is upset, hurt or angry onlineExplain why people need to think carefully about how content they post might affect others, their feelings and how it may affect how others feel about them (their reputation).	media, reputation	Project Evolve – Online Reputation Project Evolve -Online Bullying
Year 4 Spring 1	Coding and Computational Thinking (Links to Year 3 Spring 1 Coding) -Know how an IF statement worksKnow how to use co-ordinates in computer programmingKnow how to use the 'repeat until' commandKnow how an IF/ELSE statement worksKnow what a variable is in programmingKnow how to use a number variableKnow how to create a playable game.	Coding and Computational Thinking -Plan an algorithm for a scene and use 2Code to program itCreate a program that includes an IF statementUse the X and Y attributes (properties) of objects in their coding -Create and use variables when programmingRead code that includes repeat until and IF/ ELSE and explain how it works.	action, alert, algorithm, background, button, command, debug flowchart, input, nest, implement, run, repeat, code blocks, co- ordinates, execute, sequence, timer, variable, value.	Purple Mash – 4.1 Coding (6 lessons) Project Evolve -Online Relationships
	Online Safety -Know strategies for safe and fun experiences in a range of online social environments (e.g. livestreaming, gaming platforms).	Online Safety -Give some simple examples of content which I must not use without permission from the owner, e.g. videos, music, imagesGive examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behavioursExplain how content shared online may feel unimportant to one person but may be important to other people's thoughts feelings and beliefs.	permission, content, live streaming	Project Evolve – Copyright and Ownership

Year 4	Information Technology	Information Technology	column, row,	Purple Mash – 4.3 Spreadsheets (5
Spring 2	(Links to Year 3 Spring 2 Spreadsheets and Year 3 Summer 2 Branching	-Use the number formatting tools within 2Calculate to format numbers.	data, spinner tool,	lessons)
	databases)	-Add a formula to a cell to automatically make a calculation in that cell.	timer, average,	
	-Know how to format cells as currency, percentage, decimal to different decimal	-Use the timer, random number and spin button tools.	budget, equals to	
	places or fraction.	-Use a series of data in a spreadsheet to create a line graph.	tool, format cell,	
	-Know how to use the formula wizard to calculate averages.	-Use the currency formatting in 2Calculate.	formula, line	
	-Know how to combine tools to make spreadsheet activities such as timed times		graph, resize, set	
	tables tests.		image, totals.	
	-Know how to use a spreadsheet to model a real-life situation.			
	-Know how to add a formula to a cell to automatically make a calculation in that			
	cell.			
	Online Safety	Online Safety		
	-Know how using technology can be a distraction from other things, in both a	-Identify times or situations when someone may need to limit the amount of time	technology,	Project Evolve – Health Wellbeing
	positive and negative way.	they use technology e.g. I can suggest strategies to help with limiting this time.	distraction	and Lifestyles
Year 4	Coding and Computational Thinking	Coding and Computational Thinking	prediction,	Purple Mash -4.5 Logo (4 lessons)
Summer 1	-Know the structure of the coding language of Logo.	-Follow simple 2Logo instructions.	procedure, repeat,	
	-Know how to input simple instructions in Logo.	-Write 2Logo instructions for a word of four letters.	debugging, grid,	
	-Know how to use the pu and pd commands	-Follow 2Logo code to predict the outcome.	logo, logo	
	- Know how to use the Repeat function in Logo to create shapes.	-Create shapes using the Repeat command.	commands, multi-	
	-Know how to use and build procedures in Logo.	-Use the Procedure feature.	line mode, run	
	Nilow flow to use and band procedures in Logo.	ose the Frocedure reactive.	speed, SETPC,	
	Online Safety	Online Safety	SETPS.	
	-Know that internet use is never fully private and is monitored, e.g. adult	-Explain how the internet may be monitored in and out of school.	JETT J.	
	supervision.	- Discuss why there is a digital age of consent and how this impacts online life.		
	-Know how some online services may seek consent to store information about me;	biseass why there is a digital age of consent and now this impacts offline me.	monitored,	Project Evolve – Privacy and
	-Know how to respond appropriately and who I can ask if I am not sure.		consent	Security
	-Know what the digital age of consent is and the impact this has on online		Consent	Security
	services asking for consent.			
Year 4	3,	Information Tachnology		Purple Mash -4.4 Writing for
Summer 2	Information Technology  (Links to Year 3 Autumn 3 touch tuning and Year 3 Summer 1 Fmail)	Information Technology  Use tout formatting to make a piece of writing fit for its audience and purpose	campaign,	
Summer 2	(Links to Year 3 Autumn 2 touch typing and Year 3 Summer 1 Email)	-Use text formatting to make a piece of writing fit for its audience and purpose.	format, font,	Different Audiences (4 lessons)
	-Know how font size and style can affect the impact of a text.	-Use the incoming information to write their own newspaper report.	genre, opinion,	
	-Know how to use a simulated scenario to produce a news report.	-Use 2Connect to mind-map ideas.	reporter,	
		-Assess their texts using criteria to judge their suitability for the intended audience.	viewpoint.	
		-Use a simulated scenario to write for a community campaign.		
	Out the Coffee	Out the Coffee		
	Online Safety	Online Safety		
	-Know how to search for information within a wide group of technologies and	-Analyse information to make a judgement about probable accuracy and I	opinion, accuracy,	Project Evolve – Managing online
	make a judgement about the probable accuracy (e.g. social media, image sites,	understand why it is important to make my own decisions regarding content and	in app purchase	information
	video sites).	that my decisions are respected by others.	pop up, bots, fake	
	-Know some of the methods used to encourage people to buy things online (e.g.	-Recognise advert/in-app purchasing and pop ups of these when they appear	news	
	advertising offers; in-app purchases, pop-ups)	online.		
	Know that technology can be designed to act like or impersonate living things	-Explain why lots of people sharing the same opinions or beliefs online do not make		
	(e.g. bots) and describe what the benefits and the risks might be.	those opinions or beliefs true.		
	Know what is meant by fake news e.g. why some people will create stories or	-Identify examples of fake news.		
	alter photographs and put them online to pretend something is true when it isn't.			

Year 5 Autumn 1	Computing Systems and Networks (Links to Year 4 Autumn 1 The Internet) Know the role of computer systems in our lives. Know how search engines select results. Know how search results are ranked. Know why the order of results is important, and to whom.	Computing Systems and Networks  -Use search engines, explaining select results and result ranking.	Search engine, select results, result ranking	Teach Computing -Computer Systems and Networks – Systems and Sensing
	Online Safety -Know how identity online can be copied, modified or alteredKnow how to make responsible choices about online identity	Online Safety -Demonstrate how to make responsible choices about having an online identity, depending on context.	Identity, context	Project Evolve – Self Image and Self Identity
Year 5 Autumn 2	Information Technology (links to Year 4 Autumn 2 Animation) -Know how to plan a gameKnow how to design and create the game environmentKnow how to design and create the game questKnow how to finish and share the gameKnow how to self and peer evaluate.  Online Safety -Know that information about anyone online can be used by others to make judgments about an individual and why these may be incorrectKnow that online bullying can be different to bullying in the physical world and can describe some of those differencesKnow how anyone can get help if they are being bullied online and identify when to tell a trusted adultKnow how to block abusive usersKnow the helpline services which can help people experiencing bullying, and how to access them (e.g. Childline or The Mix).	Information Technology  -Describe some of the elements that make a successful game.  -Upload images or use the drawing tools to create the walls, floor, and roof. design characters for their game.  -Decide upon, and change, the animations and sounds that the characters make write informative instructions for their game so that other people can play it.  -Evaluate their own and peers' games to help improve their design for the future.  Online Safety  -Search for information about an individual online and summarise the information found.  -Describe how what one person perceives as playful joking and teasing (including 'banter') might be experienced by others as bullying.  -Identify a range of ways to report concerns and access support both in school and at home about online bullying.	evaluation, image, instructions, promotion, quest, scene, screenshot, texture, theme  bullying, report abusive user, helpline services	Purple Mash -5.5 – Game Creator (5 lessons)  Project Evolve – Online Reputation  Project Evolve -Online Bullying
Year 5 Spring 1	Coding and Computational Thinking (Links to Year 4 Autumn 2 Animation, Year 4 Spring 1 Coding and Year 4 Summer 1 Logo)  -Know how to begin to simplify codeKnow how to create a playable gameKnow what a simulation isKnow how to program a simulation using 2CodeKnow what decomposition and abstraction are in computer scienceKnow how to take a real-life situation, decompose it and think about the level of abstractionKnow how to use friction in codeKnow what the different variables types are and how they are used differentlyKnow how to create a stringKnow what concatenation is and how it works.  Online Safety - Know when it is acceptable to use the work of othersKnow that there are some people I communicate with online who may want to do me or my friends harmKnow some of the ways people may be involved in online communities and describe how they might collaborate constructively with others and make positive contributions. (e.g. gaming communities or social media groups)Know how to support others (including those who are having difficulties) online.	Coding and Computational Thinking  -Use variables in their code.  -Select the right images to reflect the simulation they are making.  -Create a program which represents a physical system.  -Create and use functions in their code to make their programming more efficient.  -Create and use strings in programming.  Online Safety  -Assess and justify when it is acceptable to use the work of others.  -Give examples of content that is permitted to be reused and know how this content can be found online.	algorithm, command co- ordinates, debug, flowchart input, nest, object, output, repeat, selection, sequence, simplify, simulation, string, tabs, timer, variable. abstraction, concatenation, decomposition, friction, function, random  online communities, permitted	Project Evolve - Copyright and Ownership

Year 5 Spring 2	Information Technology Links to Year 4 Spring 2 Spreadsheets) -Know how to use formulae within a spreadsheet to convert measurements of length and distanceKnow how to use the count tool to answer hypotheses about common letters in useKnow how to use a spreadsheet to model a real-life problemKnow how to use formulae to calculate area and perimeter of shapesKnow how to create formulae that use text variablesKnow how to use a spreadsheet to help plan a school cake sale.	Information Technology -Create a formula in a spreadsheet -Use the 'how many' toolUse calculations to solve a real-life problemCreate simple formulae that use different variablesUse a spreadsheet to model a real-life situation.	budget, columns, data, computational model, format cell, formula, formula bar, formula wizard, profit, rows, spreadsheet, totalling tool, variable.	Purple Mash – 5.3 Spreadsheets (5 lessons)
	Online Safety -Know ways technology can affect health and well-being both positively (e.g. mindfulness apps) and negatively. Know how and why some apps and games may request or take payment for additional content (e.g. in-app purchases, loot boxes).	Online Safety -Describe some strategies, tips or advice to promote health and wellbeing with regards to technologyRecognise the benefits and risks of accessing information about health and wellbeing online and how we should balance this with talking to trusted adults and professionalsExplain the importance of seeking permission from a trusted adult before purchasing.	in- app purchase, permission, content	Project Evolve – Health Wellbeing and Lifestyles
Year 5 Summer 1	Coding and Computational Thinking (Links to Year 4 Spring 1 Coding, Year 5 Spring 1 Coding and Year 4 Summer 1 Logo) -Know a device can be programmed to be used as a game controllerKnow how to create a simple quiz program that can be answered using an external device Know how to create a program in which an external device can be used to monitor real world conditions.  Online Safety -Know what a strong password isKnow many free apps or services may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with othersKnow what app permissions are.	Coding and Computational Thinking  -Adapt and test code using the emulator and then upload it to an external device  -Make a program that responds to an external device being tilted or shaken.  -Write a program that uses the sounds and motion sensors of an external device to trigger a response on the computer.  -Design, code, test and debug a program that makes use of the Purple Chip functionality.  -Explore the functions available for the Purple Chip and appraise their uses.  Online Safety  -Demonstrate how to create a strong password.  -Give examples of app permissions	algorithm, debug, event, function, input, output, variable, sensor, print to screen code view, design view, emulator/simulat or, external device, host, QR Code, URL  password, private information, app permission	Purple Mash 5.9 External Devices (6 lessons) Purple Chip app Project Evolve – Privacy and Security
Year 5 Summer 2	Information Technology (Links to Year 4 Autumn 2 Animation) -Know that computer aided design can be used as part of design processKnow the effect of moving points when designingKnow how to design a 3D Model to fit certain criteriaKnow how to print a model.	Information Technology -adapt a model by moving the points to alter the shape of the while still maintaining its formedit the polygon 3D models to design a 3D model for a purposeprint their design as a 2D net and then create it as a 3D model.	2D, 3D, 3D printing, CAD, design brief, net, pattern fill, points, template.	Purple Mash -5.6 3D Modelling (4 lessons)
	Online Safety  -Know how some technology can limit the information I aim presented with e.g. voice-activated searching giving one resultKnow what is meant by 'being sceptical'Know the internet can draw us to information for different agendas, e.g. website notifications, pop-ups, targeted ads.	Online Safety -Explain the benefits and limitations of using different types of search technologies e.g. voice-activation search engineGive examples of when and why it is important to be 'sceptical'Evaluate digital content and can explain how to make choices about what is trustworthy e.g. differentiating between adverts and search resultsExplain key concepts including: information, reviews, fact, opinion, belief, validity, reliability and evidence.	technologies, adverts, fact, opinion, belief, validity, reliability, evidence, sceptical	Project Evolve – Managing online information

Year 6	Computing Systems and Networks	Computing Systems and Networks	data, transferred,	Teach Computing -Computer
Autumn 1	(Links to Year 5 Autumn 1 Systems and Sensing)	Online Safety	internet address	Systems and Networks –
	-Know the importance of internet addresses.	-Explain how data is transferred across the internet.		Communication and Collaboration
	-Know how data is transferred across the internet.			– Lessons 1 and 2 only
	Information technology	Information technology		
	-Know the purpose of writing a blog.	-Plan the theme and content for a blog	decomposition	Purple Mash -6.4- blogging (4
	-Know the features of a successful blog.	-Consider the effect upon the audience of changing the visual properties of the	approval, archive,	lessons)
	-Know how to write a blog and a blog post.	blog.	blog, collaborate,	
	-Know how to contribute to an existing blog.	-Compose, edit and publish a blog post.	commenting,	
	-Know how and why blog posts are approved by the teacherKnow the importance of commenting on blogs.		connections, nodes, vlog.	
	-know the importance of commenting on blogs.		noues, viog.	Project Evolve – Self Image and Self
	Online Safety	Online Safety	Evaluate,	Identity
	-Know that there can be inappropriate representations online relating to gender,	-Identify and critically evaluate online content relating to gender, race, religion,	inappropriate	luentity
	race, religion, disability and culture.	disability, culture and other groups, and explain why it is important to challenge	representations	
	-Know issues online that could make someone feel uncomfortable.	and reject inappropriate representations online.	representations	
	Mion issues offine that could make someone reel ancomfortable.	-Describe issues online that could make anyone feel sad, worried, uncomfortable or		
		frightened. I know and can give examples of how to get help, both on and offline.		
		-Explain the importance of asking until I get the help needed.		
Year 6	Information Technology	Information Technology	debug, function,	Purple Mash -6.5 -Text Adventure
Autumn 2	-Know how to find out what a text adventure is.	-Map out a story-based text adventure.	repeat, variables,	(4 lessons)
	-Know how to use 2Connect to plan a story adventure.	-Split their adventure game design into appropriate sections (decomposition)to	link, QR code,	,
	-Know how to make a story-based adventure using 2Create a Story.	facilitate creating it	sprite, selection	
	-Know how to introduce an alternative model for a text adventure which has a	-Contrast a map-based game with a sequential story-based game.		
	less sequential narrative.	-Create their own text-based adventure based upon a map.		
	-Know how to use written plans to code a map-based adventure in 2Code.	-Use coding concepts of functions, two-way selection (if/else statements) and		
		repetition in conjunction with one another to code their game.		
			Reputation,	
	Online Safety	<u>Online Safety</u>	digital	
	-Know how to capture bullying content as evidence (e.g. screen-grab, URL,	-Explain the ways in which anyone can develop a positive online reputation.	personality,	Project Evolve – Online Reputation
	profile) to share with others who can help me.	-Explain strategies anyone can use to protect their 'digital personality' and online	anonymity,	
	-Know how someone would report online bullying in different contexts.	reputation, including degrees of anonymity.	screen grab, URL,	Project Evolve -Online Bullying
Year 6	Coding and Computational Thinking	Coding and Computational Thinking	profile action, algorithm,	Purple Mash – 6.1 Coding (6
	<u> </u>		command.	
Spring 1	(Links to Year 5 Spring 1 Coding) -Know how to plan a program including a timer.	-Plan a program which includes a timer and a scoreCreate a program that makes use of functions.	coordinate,	lessons)
	-Know how to follow flowcharts to create and debug a program.	-Follow flowcharts to create and debug code.	decomposition,	
	-know now to follow howellarts to create and debug a program.	-Attribute variables to user input.	execute, run,	
		-design their own text-based adventure game based on one they have played.	event, debug,	
		design their own text based difference game based on one they have played.	flowchart, input,	
			output, sequence,	
			timer, variable	
	Online Safety	Online Safety	simulation	
	-Know how to be kind and show respect for others online including the	-Demonstrate the use of search tools to find and access online content which can		
	importance of respecting boundaries regarding what is shared about them online	be reused by others.	sharing, images,	Project Evolve -Online
	and how to support them if others do not.	-Demonstrate how to make references to and acknowledge sources I have used	source,	Relationships
	-Know that things shared privately online can have unintended consequences for	from the internet.	unintended	
	others. e.g. screen-grabs.	-Explain that taking or sharing inappropriate images of someone (e.g. embarrassing	consequences	Project Evolve – Copyright and
		images), even if they say it is okay, may have an impact for the sharer and others;		Ownership
		and who can help if someone is worried about this.		

Year 6	Information Technology	Information Technology	spreadsheet	Purple Mash – 5.3 Spreadsheets (5
Spring 2	(Links to Year 5 Spring 2 Spreadsheets) -Know how to use a spreadsheet to investigate the probability of the results of throwing many diceKnow how to use a spreadsheet to calculate the discount and final prices in a saleKnow how to use a spreadsheet to plan how to spend pocket money and the effect of saving money.	-Create a spreadsheet to answer a mathematical question relating to probabilityUse the formula wizard to create formulaeUse a spreadsheet to model a real-life situation and come up with solutions.	budget, data, chart, columns, count tool, dice tool, expense, format cell, formula, percentage, probability, profit, rows	lessons)
	Online Safety -Know common systems that regulate age-related content (e.g. PEGI, BBFC, parental warnings) -Know features of persuasive design and how they are used to keep users engaged (current and future use).	Online Safety -Explain the purpose of age regulationRecognise and can discuss the pressures that technology can place on someone and how / when they could manage thisAssess and action different strategies to limit the impact of technology on health (e.g. night-shift mode, regular breaks, correct posture, sleep, diet and exercise).	age-regulation, persuasive design	Project Evolve – Health Wellbeing and Lifestyles
Year 6 Summer	Coding and Computational Thinking -Know that a micro: bit is an input, process and output device that can be programmedKnow how IF/THEN/ELSE statements are used to direct the flow of a programKnow that a variables value remains the same after it has been checked by the programKnow the function of the different sensors of the micro: bit.	Coding and Computational Thinking  -Create a program to run on a controllable device.  -Explain that selection can control the flow of a program.  update a variable with a user input.  -Use a conditional statement to compare a variable to a value.  -Design a project that uses inputs and outputs on a controllable device.  -Develop a program to use inputs and outputs on a controllable device.	Input, output, device, flowchart, variables, sensors, micro: bit, controllable device	Teach Computing 6.6 Programming [B] – Sensing Movement (6 lessons)  Micro: bits
	Online Safety -Know ways people can manage passwords (e.g. storing them securely or saving them in the browser)Know what to do if a password is shared, lost or stolen -Know ways in which some online content targets people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing)Know that online services have terms and conditions that govern their useDefine the terms 'influence', 'manipulation' and 'persuasion'.	Online Safety -Describe simple ways to increase privacy on apps and services that provide privacy settingsExplain how and why some people may present 'opinions' as 'facts'; why the popularity of an opinion or the personalities of those promoting it does not necessarily make it true, fair or perhaps even legal. Explain how someone might encounter 'influence', 'manipulation' and 'persuasion'. online (e.g. advertising and 'ad targeting' and targeting for fake news).	Password, privacy, browser, content, identity, phishing, influence, manipulation, persuasion	Project Evolve – Privacy and Security Project Evolve – Managing online information