## Sequence of knowledge over time to meet curriculum end points – ELT 2023 (Education for a Connected World version)

	Knowledge	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digital Literacy	Self-Image and Identity	I can recognise, 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.	I can recognise that there may be people online who could make someone feel sad, embarrassed or upset. If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust and how they can help.	I can explain how other people may look and act differently online and offline. I can give examples of issues online that might make someone feel sad, worried, uncomfortable or frightened; I can give examples of how they might get help.	I can explain what is meant by the term 'identity'. I can explain how people can represent themselves in different ways online. I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming; using an <b>avatar</b> ; social media) and why.	I can explain how my online identity can be different to my offline identity. I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them. I can explain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this.	I can explain how identity online can be copied, modified or altered I can demonstrate how to make responsible choices about having an online identity, depending on context.	I can identify and critically evaluate online content relating to gender, race, religion, disability, culture and other groups, and explain why it is important to challenge and reject inappropriate representations online. I can 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. I can explain the importance of asking until I get the help needed.
Digi	Online Relationships	I can recognise some ways in which the internet can be used to communicate. I can give examples of how I (might) use technology to communicate with people I know.	I can give examples of when I should ask permission to do something online and explain why this is important. I can use the internet with adult support to communicate with people I know (e.g. video call apps or services) I can explain why it is important to be considerate and kind to people online and to respect their choices. I can explain why things one person finds funny	I can give examples of how someone might use technology to communicate with others they don't also know offline and explain why this might be risky. (e.g. email, online gaming, a pen-pal in another school / country). I can explain who I should ask before sharing things about myself or others online. I can describe different ways to ask for, give, or deny my permission online and can identify	I can describe ways people who have similar likes and interests can get together online. I can explain what it means to 'know someone' online and why this might be different from knowing someone offline I can explain what is meant by 'trusting someone online', why this is different from 'liking someone online', and why it is important to be careful about who to trust online including what	I can describe strategies for safe and fun experiences in a range of online social environments (e.g. <b>livestreaming</b> , gaming platforms) I can give examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours. I can explain how content shared online may feel unimportant to one person but may be important to other	I can give examples of technology- specific forms of communication (e.g. emojis, memes and GIFs). I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognise that this is not my / our fault. I can describe some of the ways people may be involved in online communities and describe how they might collaborate constructively with	I can explain how sharing something online may have an impact either positively or negatively. I can describe how to be kind and show respect for others online including the importance of respecting boundaries regarding what is shared about them online and how to support them if others do not. I can describe how things shared privately online can have unintended consequences for

			or sad online may not	who can help me if I am	information and	people's thoughts	others and make positive	others. e.g. screen-
			always be seen in the	not sure.	content they are	feelings and beliefs.	contributions. (e.g.	grabs.
			same way by others.		trusted with.	, i i i i i i i i i i i i i i i i i i i	gaming communities or	-
				I can explain why I have			social media groups).	I can explain that taking
				a right to say 'no' or 'l	I can explain why			or sharing inappropriate
				will have to ask	someone may change		I can explain how	images of someone (e.g.
				someone'. I can explain	their mind about		someone can get help if	embarrassing images),
				who can help me if I feel	trusting anyone with		they are having problems	even if they say it is
				under pressure to agree	something if they feel		and identify when to tell	okay, may have an
				to something I am	nervous,		a trusted adult.	impact for the sharer
				unsure about or don't	uncomfortable or			and others; and who can
				want to do.	worried.		I can demonstrate how	help if someone is
							to support others	worried about this.
				I can identify who can	I can explain how		(including those who are	
				help me if something	someone's feelings can		having difficulties)	
				happens online without	be hurt by what is said		online.	
				my consent.	or written online.			
				I can explain how it may	I can explain the			
				make others feel if I do	importance of giving			
				not ask their permission	and gaining permission			
				or ignore their answers	before sharing things			
				before sharing	online; how the			
				something about them	principles of sharing			
				online.	online is the same as			
					sharing offline e.g. sharing images and			
				I can explain why I	videos.			
				should always ask a	videos.			
				trusted adult before				
				clicking 'yes', 'agree' or				
ŀ	Online Deputation	I can identify ways that I	I can recognise that	'accept' online. I can explain how	I can explain how to	I can describe how to	I can search for	I can explain the ways in
	Online Reputation	can put information on	information can stay	information put online	search for information	find out information	information about an	which anyone can
		the internet.	online and could be	about someone can last	about others online.	about others by	individual online and	develop a positive
			copied.	for a long time.		searching online.	summarise the	online reputation.
					I can give examples of	, in the second s	information found.	
	لن ا		I can describe what	I can describe how	what anyone may or	I can explain ways that		I can explain strategies
			information I should not	anyone's online	may not be willing to	some of the	I can describe ways that	anyone can use to
			put online without	information could be	share about themselves	information about	information about	protect their 'digital
			asking a trusted adult	seen by others.	online. I can explain the	anyone online could	anyone online can be	personality' and online
			first.		need to be careful	have been created,	used by others to make	reputation, including
				I know who to talk to if	before sharing anything	copied or shared by	judgments about an	degrees of anonymity.
				something has been put	personal.	others.	individual and why these	
				online without consent			may be incorrect.	
				or if it is incorrect.	I can explain who			
					someone can ask if			
					they are unsure about			
					putting something			
					online.			

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Online Bullying	I can describe ways that some people can be unkind online. I can offer examples of how this can make others feel.	I can describe how to behave online in ways that do not upset others and can give examples.	I can explain what bullying is, how people may bully others and how bullying can make someone feel. I can explain why anyone who experiences bullying is not to blame. I can talk about how anyone experiencing bullying can get help.	I can describe appropriate ways to behave towards other people online and why this is important. I can give examples of how bullying behaviour could appear online and how someone can get support.	I can recognise when someone is upset, hurt or angry online. I can describe ways people can be bullied through a range of media (e.g. image, video, text, <b>chat</b> ) I can explain 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).	I can recognise online bullying can be different to bullying in the physical world and can describe some of those differences. I can describe how what one person perceives as playful joking and teasing (including <b>'banter'</b> ) might be experienced by others as bullying. I can explain how anyone can get help if they are being bullied online and identify when to tell a trusted adult. I can identify a range of ways to report concerns and access support both in school and at home about online bullying. I can explain how to block abusive users. I can describe the helpline services which can help people experiencing bullying, and how to access them (e.g. Childline or The	I can describe how to capture bullying content as evidence (e.g screen- grab, URL, profile) to share with others who can help me. I can explain how someone would report online bullying in different contexts.
Managing Online Information	I can talk about how to use the internet as a way of finding information online. I can identify devices I could use to access information on the internet.	I can give simple examples of how to find information using digital technologies, e.g. search engines, voice activated searching). I know / understand that we can encounter a range of things online including things we like and don't like as well as	I can use simple keywords in <b>search</b> <b>engines</b> . I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections). I can explain what <b>voice</b> <b>activated searching</b> is	I can demonstrate how to use key phrases in search engines to gather accurate information online. I can explain what <b>autocomplete</b> is and how to choose the best suggestion.	I can analyse information to make a judgement about probable accuracy and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others. I can describe how to search for information within a wide group of	Mix). I can explain the benefits and limitations of using different types of search technologies e.g. voice- activation search engine. I can explain how some technology can limit the information I aim presented with e.g. voice-activated searching giving one result. I can explain what is meant by 'being	I can explain how search engines work and how results are selected and ranked I can explain how to use search technologies effectively I can describe how some online information can

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	things which are real or	and how it might be	I can explain how the	technologies and make	sceptical'; I can give	be opinion and can offer
	make believe / a joke.	used, and know it is not	internet can be used to	a judgement about the	examples of when and	examples.
		a real person (e.g. Alexa,	sell and buy things.	probable accuracy (e.g.	why it is important to be	
	I know how to get help	Google Now, Siri).		social media, image	'sceptical'.	I can explain how and
	from a trusted adult if		I can explain the	sites, video sites).		why some people may
	we see content that	I can explain the	difference between a		I can evaluate digital	present 'opinions' as
	makes us feel sad,	difference between	'belief', an 'opinion'	I can describe some of	content and can explain	'facts';
	uncomfortable worried	things that are	and a 'fact. and can	the methods used to	how to make choices	why the popularity of an
	or frightened.	imaginary, 'made up' or	give examples of how	encourage people to	about what is	opinion or the
	or montened.	'make believe' and	and where they might	buy things online (e.g.	trustworthy e.g.	personalities of those
		things that are 'true' or	be shared online, e.g.	advertising offers; in-	differentiating between	promoting it does not
		'real'.	in videos, memes,	app purchases, pop-	adverts and search	necessarily make it true,
			posts, news stories etc.	ups) and can recognise	results.	fair or perhaps even
				some of these when		legal.
		I can explain why some		they appear online.		
		information I find online	I can explain that not		I can explain key	
		may not be real or true.	all opinions shared may		concepts including:	I can define the terms
			be accepted as true or	I can explain why lots of	information, reviews,	'influence',
			fair by others (e.g.	people sharing the	fact, opinion, belief,	'manipulation' and
			monsters under the	same opinions or	validity, reliability and	'persuasion' and explain
			bed).	beliefs online do not	evidence.	how someone might
				make those opinions or		encounter these online
			I can describe and	beliefs true.	I can identify ways the	(e.g. advertising and 'ad
			demonstrate how we		internet can draw us to	targeting' and targeting
			can get help from a	I can explain that	information for different	for <b>fake news</b> ).
			trusted adult if we see	technology can be	agendas, e.g. website	
			content that makes us	designed to act like or	notifications, pop-ups,	I understand the
			feel sad, uncomfortable	impersonate living	targeted ads.	concept of <b>persuasive</b>
			worried or frightened.	things (e.g. <b>bots</b> ) and		design and how it can
			_	describe what the		be used to influences
				benefits and the risks		peoples' choices.
				might be.		
				Ū.	I can describe ways of	the second second second second second
				Less surfais what is	identifying when online	I can demonstrate how
				I can explain what is	content has been	to analyse
				meant by fake news	commercially sponsored	and evaluate the validity
				e.g. why some people	or boosted, (e.g. by	of 'facts' and
				will create stories or	commercial companies	information and I can
				alter photographs and	or by vloggers, content	explain why using these
				put them online to	creators, influencers.	strategies are
				pretend something is		important.
				true when it isn't.		
						I can explain how
						companies and news
					I can explain what is	providers target people
					meant by the	with online news stories
					term 'stereotype', how	they are more likely to
					'stereotypes' are	engage with and how to
					amplified and reinforced	recognise this.
					online, and why	
					accepting 'stereotypes'	I can describe the
					may influence how	difference between on-
						unterence between on-

						people think about others. I can describe how <b>fake</b> <b>news</b> may affect someone's emotions and behaviour, and explain why this may be harmful. I can explain what is meant by a ' <b>hoax</b> '. I can explain why someone would need to think carefully before they share.	line misinformation and dis-information. I can explain why information that is on a large number of sites may still be inaccurate or untrue. I can assess how this might happen (e.g. the sharing of misinformation or disinformation). I can identify, flag and report inappropriate content.
Health, Wellbeing and lifestyle	I can identify rules that help keep us safe and healthy in and beyond the home when using technology. I can give some simple examples of these rules.	I can explain rules to keep myself safe when using technology both in and beyond the home.	I can explain simple guidance for using technology in different environments and settings e.g. accessing online technologies in public places and the home environment. I can say how those rules / guides can help anyone accessing online technologies.	I can 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). I can 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	I can explain how using technology can be a distraction from other things, in both a positive and negative way. I can identify times or situations when someone may need to limit the amount of time they use technology e.g. I can suggest strategies to help with limiting this time.	I can describe ways technology can affect health and well-being both positively (e.g. mindfulness apps) and negatively. I can describe some strategies, tips or advice to promote health and well- being with regards to technology I recognise the benefits and risks of accessing information about health and well-being online and how we should balance this with talking to trusted adults and professionals.	I can describe common systems that regulate age-related content (e.g. <b>PEGI</b> , <b>BBFC</b> , parental warnings) and describe their purpose. I recognise and can discuss the pressures that technology can place on someone and how / when they could manage this. I can recognise features of <b>persuasive design</b> and how they are used to keep users engaged (current and future use). I can assess and action different strategies to limit the impact of technology on health (e.g. <b>night-shift mode</b> , regular breaks, correct

				(e.g. age restricted gaming or web sites).		<b>in-app purchases</b> , <b>lootboxes</b> ) and explain the importance of seeking permission from a trusted adult before purchasing.	posture, sleep, diet and exercise)
Privacy and Security	I can identify some simple examples of my personal information (e.g. name, address, birthday, age, location). I can describe who would be trustworthy to share this information with; I can explain why they are trusted.	I can explain that passwords are used to protect information, accounts and devices. I can recognise more detailed examples of information that is personal to someone (e.g where someone lives and goes to school, family names). I can explain why it is important to always ask a trusted adult before sharing any personal information online, belonging to myself or others.	I can explain how passwords can be used to protect information, accounts and devices. I can explain and give examples of what is meant by 'private' and 'keeping things private'. I can describe and explain some rules for keeping personal information private (e.g. creating and protecting passwords). I can explain how some people may have devices in their homes connected to the internet and give examples (e.g. lights, fridges, toys, televisions)	I can describe simple strategies for creating and keeping passwords private. I can give reasons why someone should only share information with people they choose to and can trust. I can explain that if they are not sure or feel pressured then they should tell a trusted adult. I can describe how connected devices can collect and share anyone's information with others.	I can describe strategies for keeping personal information private, depending on context. I can explain that internet use is never fully private and is monitored, e.g. adult supervision. I can describe how some online services may seek consent to store information about me; I know how to respond appropriately and who I can ask if I am not sure. I know what the <b>digital age of consent</b> is and the impact this has on online services asking for consent.	I can explain what a strong password is and demonstrate how to create one. I can explain how many free apps or services may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others. I can explain what app permissions are and can give some examples	<ul> <li>I can describe effective ways people can manage passwords (e.g. storing them securely or saving them in the browser).</li> <li>I can explain what to do if a password is shared, lost or stolen.</li> <li>I can describe how and why people should keep their software and apps up to date, e.g. auto updates.</li> <li>I can describe simple ways to increase privacy on apps and services that provide privacy settings.</li> <li>I can describe 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).</li> <li>I know that online services have terms and conditions that govern their use.</li> </ul>

	Copyright and Ownership	I know that work I create belongs to me. I can name my work so that others know it belongs to me	I can explain why work I create using technology belongs to me. I can say why it belongs to me (e.g. 'I designed it' or 'I filmed it''). I can save my work under a suitable title / name so that others know it belongs to me (e.g. filename, name on content). I understand that work created by others does not belong to me even if I save a copy.	I can recognise that content on the internet may belong to other people. I can describe why other people's work belongs to them.	I can explain why copying someone else's work from the internet without permission isn't fair and can explain what problems this might cause.	When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it. I can give some simple examples of content which I must not use without permission from the owner, e.g. videos, music, images.	I can assess and justify when it is acceptable to use the work of others. I can give examples of content that is permitted to be reused and know how this content can be found online.	I can demonstrate the use of search tools to find and access online content which can be reused by others. I can demonstrate how to make references to and acknowledge sources I have used from the internet.
	Knowledge Mechanics	EYFS I can use a mouse,	Year 1 I can log in confidently	Year 2 I can learn to type	Year 3 I know how to save my	Year 4 To understand how	Year 5 I can add text to a web	Year 6 I can double click to
		touchscreen, or appropriate access device to target and select options on screen I can turn on the music centre and select music. I can use a touchscreen to open and close apps I can ask an adult to help me with technology I can take turns on a digital device I can talk about different digital devices	using my username and password. I can start using a keyboard and develop my mouse skills. I understand that they keyboard is in capital letters I can understand what <b>cut, copy and paste</b> does. I can open and save my own work. I can use arrow keys to move the cursor.	without looking at the keyboard for the correct finger placement I am able to move my typing hands I can improve my <b>touch</b> <b>typing</b>	files and retrieve them in the next lesson independently.	email travels and how to retrieve it. To send and reply to emails. To attach a file/photo to an email. To understand the advantages of attaching files/photos to emails. To use emails to communicate ideas. Using Microsoft word online and sharing the document with others via email. To use keyboard shortcuts for <b>copy and</b> <b>paste ctrl c, v.</b>	page I can add images to a web page. I can use <b>copy and paste</b> in a spreadsheet.	copy, push/pull, and offset. I can use different types of keyboard combination using <b>drag</b> <b>and drop</b> and two finger scrolling.
Information Technology	Searching and Selecting Information	I can find the correct app to help me with different areas of the curriculum.	I can search the internet for suitable pictures on an iPad. I can use the internet with adult support to communicate with people I know. I can use Google search to find imagesI can search the internet for	I can find images from the internet to insert into an Image on separate layers	I can use search engines effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content I can be discerning in evaluating digital content. I can select which search results I		I understand how hashtag searching works. I can evaluate webpages and describe the key features of a webpage	I know how to apply for jobs and how to create a CV using a template.

Digital Artifacts	I can use different digital devices. I can recognise a selection of digital devices I can use a digital device to make pictures, videos and Music. I can talk about what I am doing on the iPad I can record my voice on a digital device	suitable pictures on an iPad I can explain why work I create using technology belongs to me I can use Google search to find images I can explain why something belongs to me. I can save images from the internet I can save work under a suitable title/name I can create and rename folders I understand that work created by others does not belong to me even if I save a copy. I can rename files I can send ( <b>AirDrop</b> ) files to each other and to the teacher. I can present my images in a gallery	I can earn how to access and use a mobile word processor. I know and use and save a word file I can use different word processing apps and to compare the experience. I can use different presentation apps and to compare the experience. I know how to take a good photo. I can save and organise photos. I can create a <b>Picollage</b> using edited photos. I understand that photo editing is done in layers. I understand the concept of transparent in photo editing. I can add and edit layers. I can use Copy and paste confidently. I can change visibility of layers	will click on to explore further. I can assess the credibility of a source on the internet. I can collect, analyse, evaluate and present data and information I can research and record information on a given topic or subject.	I can create a word document and edit font – to know these terms- Create – File – Save – Save As – Open – Cut – Copy – Paste – Keyboard Shortcut – Copyright – Cite Information – Transition I can open and edit word document. I can remember keyboard shortcuts (Cut, copy paste). I understand copyright and remember how to cite information I can create a PowerPoint and edit font and design. I can layer images on top of each other. To create image effects. To understand images can be changed or enhanced I can understand the smart select function (Magic wand). I can use the crop function.(Extension activity – upload name plate to pupils email signature)	I can create docs and collaborate using Microsoft Word (online). I can collaborate digitally on the same document using "Share" I can use Microsoft Publisher/Apple Pages to create my own image I can create an advert using Microsoft Publisher I can still images to produce an animation I can combine individual frames to perceive movement within a design programme I can create custom- made and creative animations I can create my own web page layout.	I can draw a 2D shape or line. I can manipulate 2D shapes into 3D shapes. I can use the measure tool to draw shapes. I can use inference points to draw lines and shapes. I can create a complex 3D model - I can select the tools I need for different features. I can use the main tools independently. I can import models from the 3D warehouse. I can copy and manipulate 3D models. I can select the tools I need for different features. I can use the main tools independently. To understand that anything in an image can be digitally added, removed, or altered. I can use iMovie to create a video. I can upload to OneDrive. I can use Windows Photos to add digital effects
Computing Contexts	I can use technology to help me learn about the world I can ask questions about different digital devices	I can describe what an illustration is I can plan an illustration for a book I can create and save an illustration I can edit an illustration I can create an eBook	I can transfer word processing skills to create a presentation. I can complete a presentation with animations and transitions	I can study maps, atlases, globes and digital/computer mapping to locate countries and describe features studied in my geography topic.	I can develop camera skills and manipulation to create a trailer. I can create more complex video using a mixture of video and photo	I can create hyperlinks to my own webpage. I can publish and share my own webpage.	I am able improve our work from Year 4 by creating a short video using green screen. I can add digital effects to our videos using Windows Photos

	I can answer about what I with a range of tech I can talk abo might stop a working	am doing nology ut what	l can add illustrations to an eBook	I can use a photo edit app confidently for a desired purpose I can present my photos. I am able to use a variety of sending techniques such as <b>AirDrop.</b>	I can create and experience stories about my topic. I can use the websites or apps to explore and research about my subject	I can use a variety of methods to create a news report with a replacement background.		
Knowledg			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algorithm Programm	algorithm	ple n order a sequence as oute for a ot obot to go lace n algorithm	I am beginning to know the term, <b>Algorithm</b> . I know the meaning of an Algorithm (a list of instructions) I can use directional instructions to create algorithms to solve puzzles. I can solve problems by splitting them into smaller parts. I know that <b>debugging</b> is fixing our code, so that it works.	I can animate a sprite. I can use a repeat block successfully. I can make sprites appear and disappear. I can control sprites actions. I can change the size of the sprite. I can use messaging to control a sprite. I can sequencing in a program	I know how to create a list of instructions. I use of the term algorithm correctly (a list of instructions). I can visualise an algorithm before running the code. I can fix any mistakes (Debugging) I understand the concept of coding – coding tells computers what to do, developers write code to build their own apps and games. I can describe and construct simple sequences. I can build sequences and understand orders. I can understand what a loop is in coding. I can write code with loops. I can understand basic conditions in code – if/then.	I understand and identify algorithms by building simple algorithms to solve puzzles while developing my sequencing skills. I can identify bugs and know how to approach fixing them I can write my own code to solve problems in a game. I can make sure that made code is efficient and I can identifying loops. I understand <b>decomposition</b> to solve problems. I understand <b>abstraction</b> to solve problems I understand how functions can make coding efficient. I understand <b>conditional</b> <b>statements</b> for different contexts. I am developing my knowledge about loops and how to use and identify <b>nested</b> <b>loop</b> (Loops within <b>loops)</b> I can use a <b>repeat</b> <b>block</b> and "sensing" to send the sprite back to the start if they touch a wall in my game. I can use an "IF" condition to create section of a wall to	I can describe, demonstrate and code using commands and sequences. I can describe, demonstrate and debug with code I can describe, demonstrate and code using functions and loops I know how to use the Kodu tools to create a 3D environment.	I can describe, demonstrate and code using commands and sequences I can describe, demonstrate and debug with code I can describe, demonstrate and code using functions and loops I can design programmes to solve challenges with functions and loops I can describe, demonstrate and code using conditional code and logic

Data (use component knowledge to support understanding of data)	I can use a pictogram to help me answer questions I can count, sort and group information on an iPad			I am understand about HTML coding. I know how phone/tablet apps are coded. I can use HTML code to show how phone/tablet apps are coded.	open and close when the button is touched. I can use the function hide and show. I understand what a computer network is, and how they can provide multiple services, such as the world wide web, and opportunities for collaboration and communication. I understand the components of a computer network. To show how information is exchanged between devices. I understand that the internet is the physical connection between computers and networks. I understand how data travels throughout a network. I understand that devices on a network have a unique	I can identify the key elements of a spreadsheet (rows, columns and cells) I can reference cells in a spreadsheet I know that a spreadsheet is used to perform calculations I can enter formulae into a spreadsheet I know that when you change the numbers used in a spreadsheet the results of calculations are worked out again (recalculated) I can enter labels and numbers into a spreadsheet I know that spreadsheet models allow exploration of possible outcomes I can change the data in a spreadsheet to answer	I can explain that web pages are written using HTML; use basic HTML tags; remix webpages using X-Ray Goggles Understand that Python is the language that powers websites and apps I know the difference between visual and scripted programming languages – introduction to Python,
Systems (input, output and process)	I can investigate how toys work using buttons/switches	I can write and program a sprite I can add sprites that move at different speeds. I can make a sprite move and hide. I can make my program repeat	I can create a game. I can program a character to grow and shrink. I can use instructions to make characters move at different speeds and distance. I can use a repeat instruction to make a	I understand how to create simple movement with blocks, bounce on edge. I know how to make sprites to follow the mouse pointer. I understand the 2 axis of the workspace. I understand what minus numbers do to code. I	Vebsite IP addresses. I understand about variables, input and output. I can design a user interface	I can use 'SUM' to calculate the total of a set of numbers in a range of cells I can add cell borders and background colours to improve the legibility of a spreadsheet table that mathematical problems can be explored using a spreadsheet I know how to create custom assets. How to save and import internet assets I can code all sprites (assets) correctly, so they make a working game. I can create a score system and lives system.	I can create my own app using the skills I have learned previously – secondary school information app. I can design the process for my app building project – by choosing buttons, titles, and changing colours.

	I can change the	sequence of instructions	can move the spite using	I know how to tell the	I understand how to use
	background	run more than once, and	directional code.	game to stop when all	the insert and resize
	automatically.	then predict the	I can create a sprite that	lives are gone.	feature.
	I can earn how to use a	behaviour.	is computer controlled.	l can create a	I know how to create
╡└─┘╞    │	repeat block to code a	I can create programs	I can use the IF button	countdown timer. I can	buttons with website
	looped action	that play a recorded	to code the sprites to	test the game and debug	links.
	I can use sound and	sound.	complete code when a	any problems. I can	I know how to create
	motion together.	I can use speech in a	criteria has been	make the game harder if	different screens in the
		program using the	fulfilled.	need by adding more	app and how to link to
		Broadcast code	I can use the wait	aliens.	them.
			function and the hide	I can create a music file	I know how to test and
			and show blocks.	and use in my game. I	debug my app build in
				can export the music file	real time.
				into my game	I know how to upload
				I can create a title	the created app to a
				screen and a game over	cloud location
				screen.	
				I know how to create	
				and control sprites in	
				this game world -	
				control with input or	
				automatically	
				I know how to create	
				scenery such as trees,	
				factories, clouds, and	
				lakes. Change the	
				scenery settings	