

## Year 4 Computing Progression Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Topic	Create digital content(4.4 - 5)(4.6 - 3)(4.9 - 4)/e-safety	Communication & Networks (4.7-3)/e-safety	Data & Data Representation (4.3 -6)/ e-safety	Hardware & Processing (4.8 -2) / e-safety	Algorithms/ Programming & De	velopment(4.1-6)(4.5 -4)/e-safety	
Learning Objective (from DC Pro)	Collects, organise and presents data and information in digital content. (AB)	<ul> <li>Knows that some websites may be unreliable and considers the validity of websites (EV)</li> </ul>	<ul> <li>Recognises that data can be structured to make it useful. (AB) (DE)</li> <li>Understands how bit patterns represent images (AB)</li> </ul>	<ul> <li>Knows that computers collect data from various input devices, including sensors and application software.(AB)</li> <li>Understands the difference between hardware and application software, and their roles within a computer system. (AB)</li> </ul>	<ul> <li>Uses diagrams to express solutio</li> <li>Uses logical reasoning to predict inputs. (AL)</li> <li>Uses if statements, and loops, w</li> <li>Declares and assigns variables. (A</li> <li>Uses a sequence of selection statement than and else statement. (AL)</li> </ul>	outputs, showing an awareness of thin programs. (AL)	
Le	Recognises what is acceptable and unacceptable behaviour when using technologies and online services. (EV)						
Skills	History of Computing To import images (edit if necessary) and text Create a presentation with their own multiple choice questions which show an understanding of the information given	Analyse the web address, text and graphics on websites     Decide on the validity of the website     Offer coherent reasons for their decisions	Ounderstand the term 'binary' Create their own more complex images on the computer and code and decode using binary Ask relevant questions and organise eight objects in a database	<ul> <li>Know the terms 'input' and 'output'</li> <li>Know how some familiar devices use inputs and outputs</li> <li>Know the terms computer system , hardware and software and know the differences between them</li> <li>Know some of the functions of the Operating System (OS)</li> </ul>	<ul> <li>Use the 'move' and 'repeat' blocks accurately and start a conversation between the sprites</li> <li>Use the 'change x' and 'change y' blocks.</li> <li>Understand how to use the 'if' block</li> <li>Understand how a variable works and add a variable to a game</li> <li>Uses if statements, and loops, within programs. (AL)</li> <li>Declares and assigns variables. (AB)</li> <li>Uses a sequence of selection statements in programs, including an if, then and else statement. (AL)</li> </ul>		
	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	Health, Well-being and Lifestyle  Il can explain how using technology can distract me from other things I might do or should be doing  I can identify times or situations when I might need to limit the amount of time I use technology  I can suggest strategies to help me limit this time	Online relationships/ Online bullying  I can describe strategies for safe and fun experiences in a range of online social environments.  I can give examples of how to be respectful to others online.  I can identify some online technologies where bullying might take place.  I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat).  I can explain why I need to think carefully about how content I post might affect others, their feelings and how it may affect how others feel about them (their reputation).	Online reputation  I can describe how others can find out information about me by looking online.  I can explain ways that some of the information about me online could have been created, copied or shared by others.	Privacy and security I can explain what a strong password is. I can describe strategies for keeping my personal information private, depending on context. I can explain that others online can pretend to be me or other people, including my friends. I can suggest reasons why they might do this. I can explain how internet use can be monitored.	Self-image and identity  I can explain how my online identity can be different to the identity I present in 'real life'.  Knowing this, I can describe the right decisions about how I interact with others and how others perceive me.	
Vocabulary	reating and modifying, specific urpose, photo modifying, valid, false, persuasion, opinion, bias, validity, cross reference, validity, cross		sensors, open ended problems, bugs decomposition, algorithm, debug, flo theme, maze. Undo, axes, negative i blocks, 'if', sensing, co-ordinates,	numbers, change x' and 'change y'			



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Ongoing skills	General ICT Skills:  To be able to choose images and download into a file  To download images from the iPad into files on the computer.	General Graphics /Video Skills     To use a digital camera to take a photo and save it     To edit a photo to enhance its appearance.     To capture video     To discuss which videos to keep and why     To arrange a short film that conveys meaning	General Sound Recording Skills	Word Processing     To be able to cut and paste effectively     To use a spell checker	Presentation skills  To create a presentation with graphics and text  To be able to talk alongside a presentation  To add sound/video to a presentation  To be able to change the running order and slide timings	Internet Skills  To be able to use a search engine to find a specific website.  To use note-taking skills to decide which text to copy and paste into a document.  To use tabbed browsing to open two or more web pages at the same time.  To open a link to a new window
	Managing online information  Analyse information and differentiate between 'opinions', 'beliefs' and 'facts'. I understand what criteria have to be met before something is a 'fact'.  Describe how I can search for information within a wide group of technologies (e.g. social media, image sites, video sites).  Describe some of the methods used to encourage people to buy things online (e.g. advertising offers; in-app purchases, pop-ups) and can recognise some of these when they appear online.  Explain that some people I 'meet online' (e.g. through social media) may be computer programmes pretending to be real people.  Explain why lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true					

Computer Science	
Information Technology	
Digital Literacy	