

Year 4 Computing Progression Map

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Create digital content(4.4 - 5)(4.6 -3)(4.9 -4)/ <mark>e-safety</mark>	Communication &Networks(4.7- 3)/ <mark>e-safety</mark>	Data & Data Representation (4.3 -6)/ <mark>e-safety</mark>	Hardware & Processing (4.8 -2) / <mark>e-safety</mark>	Algorithms/ Programming & De	velopment(4.1-6)(4.5 -4 <mark>)/</mark> e-safety
Collects, organise and presents data and information in digital content. (AB)	 Knows that some websites may be unreliable and considers the validity of websites (EV) 	 Recognises that data can be structured to make it useful. (AB) (DE) Understands how bit patterns represent images (AB) 	from various input devices, including sensors and application software.(AB) Understands the difference	 Uses logical reasoning to predict inputs. (AL) Uses if statements, and loops, wi Declares and assigns variables. (A 	outputs, showing an awareness of thin programs. (AL)
Recognises what is acceptable an	nd unacceptable behaviour when u	sing technologies and online services. (EV)			
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 	 Understand 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 	 Know the terms 'input' and 'output' Know how some familiar devices use inputs and outputs Know the terms computer system, hardware and software and know the differences between them Know some of the functions of the Operating System (OS) 	 Use the 'move' and 'repeat' blocks accurately and start a conversation between the sprites Use the 'change x' and 'change y' blocks. Understand how to use the 'if' block Understand how a variable works and add a variable to a game Uses if statements, and loops, within programs. (AL) Declares and assigns variables. (AB) Uses a sequence of selection statements in programs, including an if, then and else statement. (AL) 	
 <u>Copyright and ownership</u> 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 II 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). 	 <u>Online reputation</u> 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.
creating and modifying, specific purpose, photo modifying, keyboard shortcuts, bullet	information collection, reliability, valid, false, persuasion, opinion, bias, validity, cross reference,	database creation, database searches, inaccurate data, branching database, similarities, differences, characteristics	Sensor, input/output, environmental changes, operating system, application software,	sensors, open ended problems, bugs decomposition, algorithm, debug, flc theme, maze. Undo, axes, negative r	
	Create digital content(4.4 - 5)(4.6 -3)(4.9 -4)/e-safety Collects, organise and presents data and information in digital content. (AB) Recognises what is acceptable ar 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 Copyright and ownership • 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 Creating and modifying, specific	Create digital content(4.4 - 5)(4.6 -3)(4.9 -4)/e-safetyCommunication & Networks(4.7- 3)/e-safetyCollects, organise and presents data and information in digital content. (AB)• Knows that some websites may be unreliable and considers the validity of websites (EV)Recognises what is acceptable and unacceptable behaviour when ut 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 decisionsCopyright and ownership • 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.Health, Well-being and Lifestyle • II can explain how using technology can distract me from other things I might do or should be doing• I can give some simple examples• Creating and modifying, specificCreating and modifying, specificInformation collection, reliability,	Create digital content(4.4- S)(4.6-3)(4.9-4)/e-safety Data & Data Representation (4.3-6)/ e-safety Collects, organise and presents data and information in digital content. (AB) • Knows that some websites may be unreliable and considers the validity of websites (EV) • Recognises that data can be structured to make it useful. (AB) (DE) Recognises what is acceptable and unacceptable behaviour when using technologies and online services. (EV) • Understand the term 'binary' 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 • Understand the term 'binary' • Create their own more complex images on the computer and code and decode using binary Copyright and ownershig • When searching on the information given • Health, Well-being and Lifestyle • I can edenify times or should be doing • I can identify tome on the use technology • I can suggest strategies to help me limit this time Online relationships/ Online bullying • 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 othes feel about them (their reputation).	Protect digital content(4.4- 5)(4.6-3)(4.9-4)/e-safety Dammunication Rivetworks(4.7) (e-safety Data & Data Representation (4.3-6)/ e-safety Fardware & Processing (4.8-2) Collects, organise and presents data and information in digital content. (AB) • Knows that some websites may be unreliable and considers the validity of websites (EV) • Recognises that data can be structured to make it useful. (AB) (DE) Knows that computers collect data from various input devices, indeviding essons and application software, (AB) Recognises what is acceptable and unacceptable behaviour when using technologies and online services. (EV) • Noderstand the term 'binary' History of Computing necessariy and text information given • Analyses the web address, text and graphics on website • Offer coherent reasons for their decisions • Understand the term 'binary' • Offer coherent reasons for their decisions • None state and organise eight objects in a database • Now how some damiliar devices using binary • Offer coherent reasons for their decisions • Online relationships/ Online builtying • Copyright and ownership • Una explain how using technology can distract me from other things I might do or should be doing • I can describe structures of how to be respectful to others online. • I can describe structures of needia (e.g. in a describe structure) for an englain why i need to consider who works it and whether I have the right to re structions when I might need to limit the amount of time I we technology Online reputation • I can describe way speeple can be builled through a range of media (e.g. in and describe way speeple can be builled through a range of media (e.g. image, video, text, thai). • I can explain why I n	Create digital content (4 4) (3)(4.6.3)(4.3.4)(-softy) Endware & presentation (4.3.4)(- softer) Endware & presentation (4.3.4)(- softer) Microthers/ Programming & De softer) Collects, organise and present data and information in digital content. 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(A) Uses fastements, and loops, with System, hardware and software System, hardware and software System, hardware and so



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ten	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.	 <u>General Graphics /Video Skills</u> 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 	<u>General Sound Recording Skills</u>	 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
e-safety	 Describe how I can search for i Describe some of the methods Explain that some people I 'methods 	information within a wide group of s used to encourage people to buy eet online' (e.g. through social med	is' and 'facts'. I understand what criteria hav technologies (e.g. social media, image sites, things online (e.g. advertising offers; in-app lia) may be computer programmes pretendin nline does not make those opinions or belief	, video sites). purchases, pop-ups) and can recognis ng to be real people.		line.

Computer Science	
Information Technology	
Digital Literacy	