

## Year 6 Computing Progression Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<b>Create digital content</b>	Communication & Networks (6.4 -	Data & Data Representation (6.3 -5)	Hardware & Processing/	Algorithms/ Programming & Develo	opment(6.1 -6)(6.5 -3)/o-safety
	<mark>e-safety</mark>	4)(6.6 -3)/ <mark>e-safety</mark>	(6.7 -6)(6.8 -4)(6.9 -8)/ e-safety	<mark>e-safety</mark>	Algorithms/ Programming & Develo	phileiit(0.1 -0)(0.3 -3]/e-salety
Learning Objective (from DC Pro)	Creates digital content to achieve a given goal through combining	Discusses the validity and reliability of different	<ul> <li>Knows that digital computers use binary to represent all data (AB)</li> </ul>	Models how the internet works and how data packets	Recognises that different solutions exis     Designs solutions by decomposing a pr	oblem and creates a sub-solution for
) O	software packages and internet	viewpoints from web-based		are sent and received. (AB)	each of these parts (decomposition). (	
Juo.	services to communicate with a	sources (EV)			<ul> <li>Design, writes and debugs programs us</li> </ul>	ing procedures. (AL) (DE) (AB) (GE)
(fr	wider audience e.g. blogging. (AL)	•				
tive	<ul> <li>Uses criteria to evaluate the quality of solutions and can</li> </ul>	use search engines, and knows how search results are				
jec	identify improvements making	selected, including that search				
op	some refinements to the solution,	engines use 'web crawler				
ing	and future solutions. (EV)	programs'. (AB) (GE) (EV)				
arn	I can describe issues online that might	, , , , , ,	d uncomfortable or frightened			
Le	I know and can give examples of how	I might get help, both on and offline				
		Search the Internet more	Understand that computers use binary	Name and explain how the	Work with variables	
		efficiently	code to communicate	hardware devices are	Use broadcast and receive blocks	
		To find specific information	Use binary code for numbers and letters		<ul> <li>Match the Scratch blocks to parts of th</li> </ul>	_
		Understand how a search	Decode messages in binary	Explain how data packets are	Place variable blocks in the correct place.	ce in an algorithm
		engine works		sent and received on the	Use the 'ask' block	
		<ul> <li>Know how google searches are ranked</li> </ul>		internet	Use operator blocks	
					Using a script based programming langua	ige-
		Know why one search method     is more effective than another.			Save a procedure and use them	
		is more effective than another			<ul> <li>Recognise the importance of using pro</li> </ul>	. 3
					<ul> <li>Use a loop and nested loop in their pro</li> </ul>	
					• To create, edit, save, open, and use sav	ved procedures in a program
					Debug the program	
	Copyright and ownership	Health, Well-being and Lifestyle	Online relationships/ Online bullying	Online reputation	Privacy and security	Self-image and identity
	I can demonstrate the use of	I can describe common systems	I can show I understand my	I can explain how I am	I use different passwords for a range	I can explain why I should keep
	search tools to find and access	that regulate age-related	responsibilities for the well-being of	developing an online	of online services.	asking until I get the help I need.
	online content which can be	content (e.g. PEGI, BBFC,	others in my online social group.	reputation which will allow	I can explain what app permissions	I can describe issues online that
	reused by others.	parental warnings) and describe	I can explain how impulsive and rash	other people to form an	are and can give some examples from	might make me or others feel
	I can demonstrate how to make	their purpose	communications online may cause	opinion of me.	the technology or services I use.	sad, worried, uncomfortable or
	references to and acknowledge sources I have used from the	<ul> <li>I can assess and action different strategies to limit the impact of</li> </ul>	problems (e.g. flaming, content produced	<ul> <li>I can describe some simple ways that help build a</li> </ul>	I can describe effective strategies for	frightened. I know and can give
	internet.		in live streaming).	positive online reputation.	managing those passwords (e.g.	examples of how I might get
	internet.	technology on my health (e.g. night-shift mode, regular breaks,	I can demonstrate how I would support	positive online reputation.	password managers, acronyms,	help, both on and offline.
		correct posture, sleep, diet and	others (including those who are having		stories).	I can describe ways in which
		exercise)	difficulties) online.		I know what to do if my password is	media can shape ideas about
		I can explain the importance of	I can demonstrate ways of reporting		lost or stolen.	gender.
		self-regulating my use of	problems online for both myself and my		I can describe simple ways to increase	I can identify messages about
		technology; I can demonstrate	friends.		privacy on apps and services that	gender roles and make
		the strategies I use to do this	I can describe how to capture bullying		provide privacy settings	judgements based on them.
		(e.g. monitoring my time online,	content as evidence (e.g screen-grab,		I can describe ways in which some	I can challenge and explain why
		avoiding accidents)	URL, profile) to share with others who		online content targets people to gain	it is important to reject
			can help me		money or information illegally; I can	inappropriate messages about
			• I can identify a range of ways to report		describe strategies to help me identify	gender online.
Skills			concerns both in school and at home		such content (e.g. scams, phishing)	
IS			about online bullying.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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propriate online tools, audience, information movement, different Generate, process, interpret, store, present Internet parts, connect

Vocabulary		appropriate online tools, audience, atmosphere, structure, Copyright, information collection, HTML code , storing	information movement, different audiences, research strategies, search result rankings, acknowledge resources,	Generate, process, interpret, store, present information, plausibility, appropriate data tool, interrogate, investigations	Internet parts, connecting devices	predicting outputs, plan/program/test and writing, control mimics and devices, measu	. 3
Ĺ		Media, gender sterotypes	Conoral Craphics Midea Skills	Conoral Sound Recording Skills	Word Processing	Drosontation skills	Internet Chille
Ongoing skills	Create Digital Content	General ICT Skills:	General Graphics /Video Skills  To plan a multi-scene animation including characters, scenes, camera angles and special effects  To take a series of pictures to form an animation  To trim and arrange shots to convey meaning  To edit/improve their animation  To add titles, credits, slide transitions, special effects and talk about the effect these have on the audience  To create a storyboard and capture videos for a purpose  To trim, arrange and edit audio levels to improve the quality	Use an app to create different styles of music	Word Processing To confidently choose the correct page set up option when creating a document. To confidently use text formatting tools, including heading and body text. To use the 'hanging indent' tool to help format work where appropriate (e.g. a play script).	Presentation skills To make a multimedia presentation that contains: sound, animation, video and buttons to navigate.  To make a multimedia presentation that contains: sound, animation, video and buttons to navigate.	To use complex searches using such as '+' 'OR' "Find the phrase in inverted commas".
	e-safety	Managing online information  Use search technologies effectively.  Explain how search engines work and how results are selected and ranked.  Demonstrate the strategies I would apply to be discerning in evaluating digital content.  Describe how some online information can be opinion and can offer examples.  Explain how and why some people may present 'opinions' as 'facts'.  Define the terms 'influence', 'manipulation' and 'persuasion' and explain how I might encounter these online (e.g. advertising and 'ad targeting').  Demonstrate strategies to enable me to analyse and evaluate the validity of 'facts' and I can explain why using these strategies are important.  Identify, flag and report inappropriate content.					

Computer Science
Information Technology
Digital Literacy