Dothill Progression Mapping



Computing

Respect Happiness Responsibility Creativity HONESTY Enthusiasm Confidence Kindness Cooperation fairness

	Year Three	Year Four
Substantive knowledge Computer science (Algorithms and programming, data, systems)	 ✓ I know what is meant by debugging. ✓ I know what repetition is. ✓ I know that 'scratch' is a programming environment. ✓ I know the difference between an infinite loop and a count-controlled loop. 	 ✓ I know what is meant by debugging. ✓ I know what repetition is. ✓ I know what a sequence of instructions entails. ✓ I know the difference between an infinite loop and a count-controlled loop.
Substantive knowledge Information Technology (Digital artefact and computing contexts)	 ✓ I know how to identify input and output devices. ✓ I know how digital devices can change the way that we work. ✓ I know how digital devices can be connected. ✓ I know how text and images convey information. ✓ I know that text and layout can be edited. ✓ I know how different layouts can suit different purposes. 	 ✓ I know how networked devices make up the internet. ✓ I know how content can be added and accessed on the World Wide Web (WWW). ✓ I know how the content of the WWW is created by people. ✓ I know the difference between text and images. ✓ I know what copy means. ✓ I know what paste means. ✓ I know that sound can be recorded. ✓ I know the difference between the input and output devices used to record and play sound. ✓ I know what a podcast is.

Substantive knowledge	Computing systems and networks: Connecting Computers	Computing systems and networks: The Internet			
_	✓ I know how digital devices function.	✓ I know that the internet is a network of networks.			
Digital literacy	Self-image and identity	✓ I know that the World Wide Web is part of the internet which contains websites and web pages. Online bullying			
	✓ I know what is meant by the term 'identity'.				
(Mechanics, searching/	Online reputation				
selecting information, and e-safety)	✓ I know why you need to be careful before sharing anything personal. Health, well-being and lifestyle	✓ I know different ways people can be bullied through a range of media (e.g. image, video, text, chat)			
una e sajery)	✓ I know what is meant by a healthy balance online.	✓ I know when someone is upset, hurt or angry online.			
	Managing online information	Online relationships			
	✓ I know what autocomplete is.	✓ I know strategies for safe and fun experiences in a range of online			
	✓ I know that the internet can be used to sell and buy things.	social environments (e.g. livestreaming, gaming platforms)			
	✓ I know the difference between a 'belief', an 'opinion' and a 'fact.	Privacy and security			
	✓ I know that not all opinions shared may be accepted as true or fair by others.	 ✓ I know that internet use is never fully private and is monitored, e.g. adult supervision. 			
		✓ I know what the digital age of consent is and the impact this has on online services asking for consent.			
		Copyright and ownership			
		✓ I know not to use content without permission from the owner, e.g. videos, music, images.			
Disciplinary knowledge	✓ I can make design choices for my artwork.	✓ I can program a computer by typing commands.			
, ,	✓ I can combine sound commands.	✓ I can explain the effect of changing a value of a command.			
Computer science	✓ I can build a sequence of commands.	✓ I can write an algorithm to produce a given outcome.			
	✓ I can give basic logo commands.	✓ I know how to refine the algorithm in my design.			
(Algorithms and	✓ I know how to move a screen turtle.	✓ I know how to identify repetition in everyday tasks.			
` -		✓ I can explain the relationship between an event and an action.			
programming, data,		✓ I can develop my program by adding features.			
systems)		real develop my program by adding real ares.			
Disciplinary knowledge	✓ I can explain how a computer network can be used to share	✓ I can plan and record appropriate content for a podcast.			
Information	information.	✓ I can edit, trim, and align voice recordings.			
Tutor.mation	✓ I can recognise the physical components of a network.	✓ I know how to combine sound effects, background music and existing			
Technology	✓ I can choose appropriate page settings.	voice recordings.			
57	✓ I can add content to a desktop publishing publication.	✓ I can describe how networks physically connect to other networks.			
(5: (✓ I can consider the benefits of desktop publishing.	✓ I can outline how websites can be shared via the World Wide Web			
(Digital artefact and		(WWW).			
computing contexts)		✓ I can evaluate the consequences of unreliable content.			
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Disciplinary knowledge Digital literacy (Mechanics, searching/ selecting information, and e-safety)	 ✓ I can explain how a computer network can be used to share information. ✓ I can recognise the physical components of a network. 			 ✓ I can evaluate the consequences of unreliable content; not everything on the World Wide Web is true. ✓ 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). ✓ I know how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours. ✓ I know how to keep my personal information private, depending on context. 		
				 ✓ 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. ✓ When searching on the internet for content to use, I can explain why I need to consider who owns information on websites and whether I have the right to reuse it. 		
	Sound	Sequence	Sprite	Code snippet	Repeat	Program
Vocabulary	Command	Block	Debug	Forwards Backwards	Infinite loops Count-controlled loops	Decomposition
Computer Science				Backwaras	count-controlled loops	Algorithm
Vocabulary	Animation	Repeat	Movement	Text	soundwave	voice
Information	Stop-frame animation	Сору	Flip-book	Image	audio-recording	background music
	Frames	Paste		Templates	record	trim
Technology	Onion-skin	Alter/edit		Orientation	podcast	edit
				Content	audio	
Manada da sa	hare	Anonymity	 Fact	copyright-free images Online bullying Behaviour Digital age of consent		
Vocabulary	Created	Identity	Fake news	Banter	Support	Monitored
Digital Literacy	Copied	Autocomplete	Positive	Teasing	Share	Trusted adult
,	Reputation	Belief	Negative	Chat	Personal information	Permission
	Digital personality	Opinion	5	Image	Password	Owner
				Video	Confidentiality	Content