

Compassion, Joy, Perseverance, Respect 'Live life in all its fullness' John 10:10

Progression of Knowledge in Computing

Topics						
Devas	Bannerman	Porteous	Borton			
All about me!	Cycle A Online Safety	Cycle A Online Safety and Coding	Cycle A Online Safety and Blogging			
Let's Celebrate Polar Regions	Maze Explorers and Questioning	Coding and Spreadsheets	Coding			
Growing	Animated Story Books	Writing for different audiences	Spreadsheets			
London	Making Music Spreadsheets and Pictograms	Logo and Animation Effective search and Presenting	Word Processing Text Adventures and Networks			
Beside the Seaside	Presenting Ideas	Hardware Investigators ad Making Music	Quizzing			
	Cycle B Online Safety and Effective Searching	Cycle B Online Safety and Coding	Cycle B Coding			
	Lego Builders and Technology outside school	Coding and Spreadsheets	Online safety and Databases			
	Grouping and sorting and Creating pictures	Touch Typing	Spreadsheets			
	Spreadsheets	Email	Game Creator			
	Coding	Branching databases Simulations and Graphing	3D Modelling Concept Maps			
	Spreadsheets Coding	Branching databases	3D Modelling			



Hunton
Church of England
Primary School

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Computer Science							
Devas	Bannerman		Porteous		Borton		
40-60+ months I know goals can be achieved by following a	Year 1 I know an algorithm is a	Year 2	Year 3 I know an error within my	Year 4	Year 5	Year 6 I know how to identify	
sequence of steps.	set of instructions used to	I know an algorithm is a set of instructions to	program can prevent it	I know how to use user inputs and outputs such	I know the importance of computer networks	the important aspects	
sequence of steps.	solve a problem or	complete a task.	from following the	as 'print to screen.'	and how they help	of a programming task.	
ELG	achieve an objective.		desired algorithm.		solve problems and		
PSED; Self-Regulation: Give focused attention to		I know how to plan an		I know how to use trace	enhance	I know the difference	
what the teacher says, responding appropriately	I know a computer	algorithm and	I know how to fix these	code and use step-	communication.	between the internet	
even when engaged in activity, and show an	program turns an	transpose this into	errors.	through methods to		and the World Wide	
ability to follow instructions involving several	algorithm into code that	code.	I know the difference	identify errors in code	I know the value of	Web.	
ideas or actions.	the computer can understand.	I know I need to be	between the effect of a	and correct them.	computer networks.	I know what a WAN and	
	understand.	precise with my	timer or repeat command	I know how to 'read'	I know the main	LAN is and describe the	
	I know that an unexpected	algorithm so it will	when creating repeating	programs with several	dangers that can be	process of how to	
	outcome is due to the	work when I turn it into	effects.	steps and predict the	caused via computer	access to the internet in	
	code I have created.	code.		outcome accurately.	networks.	school is possible.	
			I know how variables can				
	I can read code one line at	I know what the term	be used to store	I know the main	I know organising my		
	a time and attempt to	'debug' means and why	information while a	component parts of	code carefully will help		
	envision the overall effect	this is important in	program is executing.	hardware which allow	me debug more		
	of the program.	coding.		computers to join and form a network.	efficiently.		
		I know how to debug	I can list a range of ways	I know that network	I know what personal		
		my own code to make	that the internet can be	and communication	information is and		
		sure it is successful.	used for communication.	components can be	know strategies for		
		I know which parts of a		found in many different	keeping this safe.		
		program respond to		devices which allow			
		events and initiate		them to join the	I know how to select		
		actions.		internet.	the most appropriate		
					form of online communication		
					according to the digital		
					content.		



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Information Technology								
Devas	Bannerman		Porteous		Borton			
40-60+ months I know how to operate simple electronic devices. I know some key features of a computer such as a mouse and keyboard. ELG Expressive Arts and Design; Creating with materials: - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	Year 1 I know computers store and follow instructions. I know some technology that is used in school.	Year 2 I know computers can store, retrieve and process information. I know how different technology can help us. I know a web-page displays information in different ways.	Year 3 I know I am connecting to the internet and using a search engine when I use searches to get digital content. I know how to select the most appropriate software when given a task by my teacher.	Year 4 I know the purpose of a search engine and the main features within it. I know how to assess a selected webpage for credibility and information at a basic level.	Year 5 I know how accurate, safe and reliable the content is on a webpage.	Year 6 I know how accurate and reliable a webpage and its content is. I know how to compare a range of digital content sources and rate them in terms of quality and accuracy.		
Digital Literacy								
Devas	Banne	erman	Porteous		Borton			
40-60+ months I know some technology we use to communicate. I know that I need to stay safe when using technology. I know that some information should be kept private. I know what to do if I see things that upset me online at school and at home. I know technology is used in and out of school. ELG Understanding the world; Past and Present: - Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class. Physical, Social, Emotional Development; Self-Regulation: - Show an understanding of their own feelings and those of others.	Year 1 I know what technology is. I know examples of technology both at home and at school. I know it is important to keep information, such as my username and password, private. I know technology in my environment is a mixture of old and new technology.	Year 2 I know the consequences of not searching online safety. I know what to do if unkind behaviour happens whilst I am online. I know where technology is used at school. I know my creations such as programs in 2Code, need similar skills to the adult world. I know things can be shared electronically, e.g. via display boards or emails.	Year 3 I know why it is important to have a secure password and not share it with others. I know the negative consequences of not keeping passwords safe and secure. I know more than one way to report unacceptable content and contact.	Year 4 I know the importance of online safety and understand the rules we learn at school. I know I have a right to privacy both on and offline. I know my wellbeing can be affected by how I use technology.	Year 5 I know common online safety rules. I know how to not let my mental wellbeing or others be affected by use of online technologies and services.	Year 6 I know the value of protecting my privacy and others online. I know more discreet inappropriate behaviours seen online through developing critical thinking.		



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Online Safety							
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40-60+ months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
I know the internet can be safe	I know strangers use online	I know who to talk to if I	I know a range of	I know a wide range of	I know the benefits of	I know how to report a	
and unsafe.	services.	have any worries about content or contact on the	places/ways to report my concerns.	places/ways to report concerns	different ways to report concerns.	concern at school and at home confidently.	
I know what to do if someone	I know some online content is	internet.					
makes me feel sad,	inappropriate.		I know going online in a	I know that online 'gifts'	I know it is important to ask	I know sharing images	
uncomfortable, embarrassed or		I know that strangers who	private place may be unsafe.	are not always what they	permission before taking a	can have consequences.	
upset online.	I know that damaged or	ask questions may be		seem	photo.		
	strange devices should not be	dangerous.	I know that not everything			I know some content can	
ELG	touched.		online is true.	I know that games and	I know what to do if I lose a	promote stereotypes.	
Physical, Social, Emotional		I know I should check with	1	websites can have age	device.		
Development; Self-Regulation:	I know that personal	an adult before accessing	I know what makes an	restrictions and breaking			
- Show an understanding of their	information should not be	something online.	effective password.	these can have	I know apps can collect		
own feelings and those of	shared with strangers.			consequences	data.		
others.				I know what a digital			
				footprint is.			