

Darley Dene Primary School - Computing Progression

<u>Intent:</u> Every child should have the right to access technology to enable them to participate effectively and safely in this ever evolving digital world. In a technology driven society that is constantly growing, we want to equip children from all backgrounds to be able to compete in a future career of their choice; regardless of whether they are able to access this technology at home. Children will be given varied computing learning experiences which will include all the different aspects of the computing curriculum. These will enable them to use computational thinking to understand how digital systems work and how to put this knowledge to use through programming. We believe that computing is essential and should be woven in to be an integral part of the curriculum as a whole. We follow the Teach computing scheme and to ensure we cover online safety, we use National Online Safety to bring an element of online safety to each lesson.

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
E-Safety								
To listen to	Recognise	Develop an	Use technology	Use technology	Recognise	Confidently,	Confidently,	
music,	that a range	understanding	safely and	safely,	acceptable/una	competently	competently and	
stories and	of	of how to use	respectfully,	respectfully,	cceptable	and responsibly	responsibly use	
play games	technology	technology	keeping personal	and	behaviour and	use information	information and	
on different	is used in	safely	information	responsibly.	identify ways to	and	communication	
devices.	places such		private.		report concerns	communication	technology.	
	as home and	Know where		Recognise	about content	technology.		
To explore	schools.	to go for help	Identify where to	acceptable/un	and contact.			
with		and support	go for	acceptable				
different	Listening to	when they	help/support	behaviour and				
equipment	stories and	have concerns	when concerned	identify ways				
in	music on a	about	about	to report				
continuous	device.	content/conta	content/contact	concerns about				
provision.		ct on internet	on the	content and				
	Being safe		internet/other	contact.				

online and	and retrieve	online		
with	digital	technologies.		
equipment.	content.			
To take a				
photo on a				
device and				
use it				
correctly.				
Playing				
games on				
the · · · · ·				
interactive				
whiteboard.				
Exploring				
keyboards				
Reyboards				
Using I pads				
safely				
(photo				
taking)				
Using a				
computer				
programme				
to mark				
make				
I can draw				

	on a device Use basic coding language when retelling						
Computer Sci	stories						
Computer Sci	ence						
		Begin to	Understand	Start to use	Use logical	Write and	Design, write and
		develop an	what algorithms	reasoning to	reasoning to	debug	debug programs
		understanding	are.	understand	understand how	programs that	that accomplish
		of Algorithms.		how	algorithms	accomplish	specific goals,
			Understand how	algorithms	work.	specific goals,	including
		Begin to	algorithms are	work.		including	controlling or
		understand	implemented as		Detect and	controlling or	simulating physical
		that programs	programs on	Detect and use	correct errors in	simulating	systems.
		work by	digital services.	a variety of	algorithms and	physical	
		following		software on	programs.	systems.	Solve problems by
		instructions.	Understand that	digital devices.			decomposing
			programs		Start to use	Solve problems	them into smaller
		Create simple	execute by	Begin to solve	sequence,	by	parts.
		programs and	following precise	problems by	selection and	decomposing	
		begin to debug	and	decomposing	repetition in	them into	Use sequence,
		them	unambiguous	them into	programs.	smaller parts.	selection and
		(beebots)	instructions.	smaller parts.			repetition
					Write and	Use sequence,	accurately in
		Develop	Use logical	Start to use	debug programs	selection and	programs.
		reasoning to	reasoning to	sequencing	that accomplish	repetition in	
		predict the	predict the		specific goals,	programs.	

		behaviour of simple programs.	behaviours of simple programs. Create and debug simple programs.	and selection in programs. Begin to develop understanding of how to write and debug programs that accomplish specific goals, including controlling or simulating physical systems. Begin to work with various	including controlling or simulating physical systems. Begin to solve problems by decomposing them into smaller parts. Work on variables and various forms of input/output.	Accurately manipulate variables and various forms of input/output. Use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs.	Accurately manipulate a wide range of variables and various forms of input/output. Securely use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs.
				with various forms of input/output.			
Digital Literac	у			· · · · · · · · · · · · · · · · · · ·			
	Select and use technology for a particular purpose	Use technology to create, store and retrieve digital content.	Use technology to create, store, retrieve, organise and manipulate digital content.	Use a variety of software on digital devices.	Select and use a variety of software on digital devices.	Express own ideas by selecting, using and combining a variety of software on digital devices.	Express own ideas by selecting, using and combining a variety of software on digital devices and create programs.

Information Technology								
Information To	Recognise that a range of technology is used in places such as home and schools.	Begin to recognise common uses of information technology beyond school.	Recognise common uses of information technology beyond school.	Show emerging understanding of computer networks including the internet and how they provide multiple services such as the World Wide Web. Use some search technologies effectively and appreciate how results are selected. Decide which questions to	Understand computer networks including the internet and how they provide multiple services such as the World Wide Web. Use search technologies effectively and appreciate how results are selected and ranked. Evaluate the reliability of digital content. Begin to ask and	Recognise the opportunities computer networks offer for communication and collaboration. Use a wide range of search technologies effectively and appreciate how results are selected and ranked. Be discerning in evaluating the reliability of digital content.	Use the opportunities computer networks offer for communication and collaboration. Appreciate how results are selected and ranked and use them to retrieve accurate content. Be discerning in evaluating the reliability of digital content.	
				Decide which	digital content.	•		

Highlighted Text = Sonar Objectives

Italicized Text = ELGs