Shillington Lower school and Stondon Lower school (Shillington and Stondon Federation)

Curriculum map/skills progression grid

Date	Computing Skills Progression Review date	Subject Leader		
April 2021	September 2022	Sarah Comerford		

This document aims to give guidance on the progression of skills and knowledge across the year groups. It is used to support planning the year groups long term overviews that break up content into termly blocks. As children make progress through the school, it is expected that they can demonstrate a wider range of independent skills and knowledge in the three strands of computing across the curriculum. In computing, like in other subjects, we recognise the importance that a range of different teaching methods could be used in supporting pupils to know more, understand more and remember more. In computing we use the following approaches; open-ended activities, discussion and collaborative working, scaffolding, problem solving and unplugged activities. These will be evident in pupil discussion, observations and work in books in order that learning opportunities in computing are as effective as possible and that pupils make progress throughout the year and across different years.

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Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Basic Skills									
	By the end of	By the end of Year 1,	By the end of Year 2,	By the end of Year 3,	By the end of Year 4,	By the end of Year 5,	By the end of Year 6,		
	Reception, children	children will be able							
	will be able to	to	to	to	to	to	to		
	Use a mouse and/or	Log on and off a	Type longer pieces	Begin to use some	Use some touch	Use some touch	Use some touch		
	touchpad to	laptop using their	of text using a	touch typing skills,	typing skills with an	typing skills with an	typing skills with an		
	navigate a simple	username and	keyboards with	developing a faster	increasing pace and	increasing pace and	increasing pace and		
	program.	password.	increasing accuracy	pace and accuracy.	accuracy.	accuracy.	accuracy.		
			and developing						
	Begin to type their	Open different	pace.	Understand the	Use different	Use a range of	select software		
	name, first and	programs e.g.		different parts of a	programs with	different software	appropriately for		
	surname, on a	Google Chrome,	Save a	computer including;	increasing	for given tasks.	the task they have		
	keyboard.	Paint, Word etc.	file/document.	keyboard, mouse,	confidence e.g.		been given.		
				monitor.	Word, PowerPoint,	Use technology with			
	Know that they	Be confident when	Open/retrieve a		the internet, Excel	an increasing	Use technology with		
	should only use the	typing their name	file/document.	Recognise	etc.	awareness of how to	an increasing		
	internet with a	and surname and		acceptable and		keep themselves	awareness of how to		
	trusted adults	short pieces of text	Copy and paste an	unacceptable	Use technology	and others safe	keep themselves		
	permission e.g.	in a word document	image and text from	behaviour online	responsibly,	online.	and others safe		
	parents or teaching	or search bar on the	the internet into		knowing		online.		
	staff	internet.	another document		communication				
			e.g. Word,		online can be seen				
			PowerPoint.		by others.				

		1/2 a	1				
		Know what to do if	Hardanska militira				
		something happens	Understand the				
		on a device that	importance of				
		they do not like –	keeping personal				
		tell a trusted adult	information private.				
		e.g. parent or					
		teaching staff					
			Digital	Literacy			
E-Safety	Children begin to show a simple understanding about how to use the internet safely.	Children understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies.	Children are able to use technology safely and understand the importance of keeping personal information private.	Children use technology safely and respectfully, keeping personal information private. They also use technology safely and recognise acceptable and unacceptable behaviour online.	Children use technology responsibly and understand that communication online may be seen by others They also understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies.	Children understand the need to only select age appropriate content.	Children can use technology respectfully and responsibly.
Using Computers	Children begin to know that information can be retrieved from computers. They are able to use ICT hardware to interact with age appropriate computer software.	Children use technology purposefully to create digital content.	Children use technology purposefully to create, organise, store, manipulate and retrieve digital content. They also begin to be able to compare the benefits of different programs.	With support, children are able to select and use a variety of software to accomplish goals.	With support, children are able to select and use a variety of software on a range of digital devices.	Children can independently select and use appropriate software for a task. Independently select, use and combine a variety of software to design and create content for a given audience.	Independently select, use and combine a variety of software to design and create content for a given audience. Children can design and crate a range of programs, systems and content for a given audience.

Net Searching				Children can use simple search technologies and recognise that some sources are more reliable than others.	Children understand how results are selected and ranked by search engines.	Children use filters in search technologies effectively and appreciate how results are selected and ranked.	Independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information. Use filters in search technologies effectively and is discerning when evaluating digital content.
			Compute	er Science			
Coding	Children show an interest in technological toys and toys with moving parts e.g. camera, iPads, pressing parts, lifting flaps. Children are able to complete simple tasks on a laptop/iPad/phone.	Children begin to predict the behaviour of simple programs. They understand what algorithms are and how they are implemented on digital devices.	Children begin to use logical reasoning to predict the behaviour of simple programs and use this to create simple programs. They are able to see simple errors and debug simple programs by using logical reasoning to predict the actions instructed by the code. Children understand that programs work by following precise and unambiguous instructions.	Children design, write and debug programs that control or simulate virtual events. They use logical reasoning to explain how some simple algorithms work.	Children begin to decompose (break down) programs into smaller parts and use logical reasoning to detect and correct errors in algorithms and programs. They select, use and combine a variety of software, systems and content that accomplish given goals	Children will design, input and test increasingly complex set of instructions to a program or device. Design, write and debug programs that accomplish specific goals, including controlling of stimulating physical systems. Design, write and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated. Children will design, write and test simple programs	Include use of sequences, selection and repetition with the hardware used to explore real world systems. Children solve problems by decomposing them into smaller parts. They will create programs which use variables. Use variables, sequence, selection, and repetition in programs. Children will use logical reasoning to explain how increasingly complex

						with opportunities for selection, where a particular result will happen based on actions or situations controlled by the user. Use logical reasoning to explain how increasingly complex algorithms work to ensure a program's efficiency.	algorithms work and to detect and correct errors in algorithms and programs efficiently.		
Networks				Children begin to understand that computer networks enable the sharing of data and information. They also begin to understand that the internet is a large network of computers and that information can be shared between computers.	Children begin to understand what servers are and how they provide services to a network.	Begin to use internet services to share and transfer data to a third party.	Children will understand how computer networks enable computers to communicate and collaborate. Begin to use internet services within his/her own creations to share and transfer data to a third party.		
_	Information Technology								
Computers	Children recognise that a range of technology is used in places such as homes and schools.	Children are able to recognise common uses of information technology in the home and school environment	Children recognise common uses of information technology in the home and school environment and in	Children recognise familiar forms of input and output devices and how they are used and	Children use different input devices such as cameras or sensors.	Children will select, use and combine a variety of software on a range of digital devices to design and create a range	Children will continue to select, use and combine a variety of software on a range of digital devices to design		

They select and use	the wider	make efficient use	of content that	and create a range
technology for	community.	of them.	accomplish given	of content that
particular purposes			goals.	accomplish given
and know how to				goals.
operate simple			Children will collect,	
equipment.			analyse, evaluate,	Children will
			and present data	continue to collect,
			and information.	analyse, evaluate,
				and present data
				and information.