Chapel St Leonards Primary School

Computing Curriculum Progression

Key Stage 1	Y1 A	Y	1 Sp		Y1 Su		Y2 A		Y2 Sp		Y2 Su	
Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	√						✓		✓		✓	
Write and test simple programs	√				✓		✓		✓		✓	,
Use logical reasoning to predict the behaviour of simple programs							✓		✓		✓	,
Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	√		✓		✓		✓		✓		√	,
Recognise common uses of information technology beyond school		✓ ✓			√		√		✓			
Use technology safely and respectfully online, keeping personal information private; identify where to go for help and support when they have concerns about content or contact	√		✓				✓		✓		✓	,
Key Stage 2	Y3 A	Y3 Sp	Y3 Su	Y4 A	Y4 Sp	Y4 Su	Y5 A	Y5 Sp	Y5 Su	Y6 A	Y6 Sp	Y6 Su
Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	√		√		Ý	✓	~	√		✓		✓
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	✓		✓		√	√	~	√		√		
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	√		~		√	√	~	√		√		
Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration	√		✓	√		√	✓		~			√
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	√	√	√	√				√	✓	✓	✓	✓
Use technology responsibly, securely and safely.	√	√	~	√	√	✓	√	✓	~	✓	~	~
Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.		~	✓	√			~	~	~		~	✓

Key Concepts									
To Code (use scratch)	To connect	To communicate	To collect						
This concept involves developing an understanding of instructions, logic and sequences.	This concept involves developing an understanding of how to safely connect with others.	This concept involves using apps to	This concept involves developing an						
		communicate one's ideas.	understanding of databases and their uses.						

Y5/6	C1: Set IF conditions for movements. Specify types of rotation giving the number of degrees.	C13: Collaborate with others online on sites approved and	C18: Choose the most	C20: Select appropriate
, .		moderated by teachers.	suitable applications	applications to devise, construct
	C2: Change the position of objects between screen layers (send to back, bring to front).		and devices for the purposes of communication. C19: Use many of the advanced features in order to create high quality, professional or efficient communications.	and manipulate data and present
	C3: Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation.	C14: Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.		it in an effective and professional manner.
	C4: Combine the use of pens with movement to create interesting effects.			
	C5: Set events to control other events by 'broadcasting' information as a trigger.	C15: Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.		
	C6: Use IF THEN ELSE conditions to control events or objects.	C16: Understand the effect of online comments and show		
	C7: Use a range of sensing tools (including proximity, user inputs, loudness and mouse position) to control events or actions.	responsibility and sensitivity when online.		
	C8: Use lists to create a set of variables.	C17: Understand how simple networks are set up and used.		
	C9: Use the Boolean operators () < () , () = (), () > (), ()and(), ()or(), Not() to define conditions.			
	C10: Use the Reporter operators () + (), () - (), () * (), () / () to perform calculations.			
	C11: Pick Random () to (), Join () (), Letter () of (), Length of (), () Mod ()			
	C12: This reports the remainder after a division calculation Round () () of ().			
Y3/4	C1: Use specified screen coordinates to control movement.	C12: Contribute to blogs that are moderated by teachers.	C17: Use some of the	C18: Devise and construct
	C2: Set the appearance of objects and create sequences of changes.	C13: Give examples of the risks posed by online communications.	advanced features of applications and devices in order to communicate	databases using application designed for this purpose in areas across the curriculum.
	C3: Create and edit sounds.	C14: Understand the term 'copyright'.	ideas, work or messages professionally.	across the curriculum.
	C4: Control when they are heard, their volume, duration and rests.	C15: Understand that comments made online that are hurtful	messages professionally.	
	C5: Control the shade of pens.	or offensive are the same as bullying.		
	C6: Specify conditions to trigger events.	C16: Understand how online services work.		
	C7: Use IF THEN conditions to control events or objects.			
	C8: Create conditions for actions by sensing proximity or by waiting for a user input (such as proximity to a specified colour or a line or responses to questions).			
	C9: Use variables to store a value.			
	C10: Use the functions define, set, change, show and hide to control the variables.			
	C11: Use the Reporter operators () + () () - () () * () () \star () () to perform calculations			
Y1/2	C1: Control motion by specifying the number of steps to travel, direction and turn.	C8: Participate in class social media accounts.	C10: Use a range of	C11: Use simple databases to
	C2: Add text strings, show and hide objects and change the features of an object.	C9: Understand online risks and the age rules for sites.	applications and devices in order to communicate	record information in areas across the curriculum.
	C3: Select sounds and control when they are heard, their duration and volume.		ideas, work and messages.	
	C4: Control when drawings appear and set the pen colour, size and shape.			
	C5: Specify user inputs (such as clicks) to control events.			
	C6: Specify the nature of events (such as a single event or a loop).			
	C7: Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?).			