## Year 1- 6 Progression of Skills

## <u>Computing milestones for Emmaville Primary School January 2020.</u>

Threshold		<u>Milestone 1</u>	Milestone 2	Milestone 3
concept		Key Stage One	Lower Key Stage	Upper Key Stage
		(Y1/2)	Two (Y3/4)	Two (Y5/6)
Code	Motion	Continue motion	Use specified	Set IF condition
This concept		by specifying the	screen coordinates	for movement.
involves		number of steps	to control	Specify types of
developing an		to travel,	movement	rotation giving the
understanding of		direction or turn.		number of degrees.
instructions, logic				5
and sequences				
·	Looks	Add text strings,	Set the appearance	Change the position
		show and hide	of objects and	of objects between
		objects and	create sequences	screen layer (send
		change features	of changes	to back, bring to
		of an object.		front)
	Sound	Select sounds	Create and edit	Upload sounds form
		and control when	sounds. Control	a file and edit
		they are heard,	when they are	them.
		their duration	heard, their	Add effects such
		and their volume	volume, duration	as fade in and out
			and rests.	and control their
				implantation.
	Draw	Control when	Control the shade	Combine the use of
		drawings appear	of pens	pens with
		and set the pen		movement to
		colour, shape,		create interesting
		size and shape.		effects
	Events	Specify user	Specify conditions	Set event to
		inputs (such as	to trigger events	control other
		clicks) to control		events by
		events		'broadcasting'
				information as a
				trigger
	Control	Specify the a	Use IF THEN	Use IF THEN ELSE
		nature of events	conditions to	condition to control
		(such as a single	control events or	events or objects
		event or loop)	objects	
	Sensing	Create	Create conditions	Use a range of
		conditions for	for actions by	sensing tools
		actions by	sensing proximity	(including
		waiting for a	or by waiting or a	proximity, use
		user input (such	use input (such as	inputs, loudness
		as responses to	proximity to a	and mouse position)

		questions like:	specified colour or	to control events or actions.
		What is your name?)	a line or responses to questions)	or actions.
	Variables and lists		Use variables to store a value	Use lists to create a set of variables
	Operators		Use the Reporter operators () + () () - () () * () () / () to perform calculations	Use the Boolean operators () < () () = () () > () () and () () or () Not () to define conditions Use reporter calculations Pick random () to () Join () () Letter () of () Length of () () Mod () This reports the remainder After a division calculation Round () () of ()
<b>Connect</b> This concepts involves developing an understanding of how to safely connect with others		Participate in class social media accounts. Understand online risks and the age rules for sites	Contribute to blogs that are moderated by teachers. Give examples of the risks posed online communications. Understand the term 'copyright.' Understand that comments made online that are hurtful or offensive are the same as bullying. Understand how online services work.	Collaborated with others online on sites approved and moderated by teachers. Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission,

<b>Communicate</b> This concepts involves using apps to communicate one's ideas.	Use a range of applications and devices in order to communicate ideas, work and messages.	Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.	from the copyright holder. Understand the effect of online comments and show responsibility and sensitivity when online. Understand how simple networks are set up and used. Choose the most suitable applications and devices for the purposes of communication. Use many of the advanced features in order to create high quality, professional or efficient communications.
<b>Collect</b> This concept involves developing an	Use simple databases to record information in	Devise and construct databases using applications	Select appropriate applications to devise, construct and manipulate
understanding of databases and their uses.	areas across the curriculum.	designed for this purpose in areas across the curriculum.	data and present it in an effective and professional manner.