## Progression in Computing

Threshold  Concept			Milestone 1 (By end of Y2)		Milestone 2 (By end of Y4)
Code This concept involves developing an understanding of instructions, logic and sequences.	Motion	•	Control motion by specifying the number of steps to travel, direction and turn.	•	Use specified screen coordinates to control movement.
	Looks	•	Add text strings, show and hide objects and change the features of an object.	•	Set the appearance of objects and create sequences of changes.
	Sound	•	Select sounds and control when they are heard, their duration and volume.	•	Create and edit sounds. Control when they are heard, their volume, duration and rests.
	Draw	•	Control when drawings appear and set the pen colour, size and shape.	•	Control the shade of pens.
	Events	•	Specify user inputs (such as clicks) to control events.	•	Specify conditions to trigger events.
	Control	•	Specify the nature of events (such as a single event or a loop).	•	Use IF THEN conditions to control events or objects.
	Sensing	•	Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?).	•	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).
	Variables and lists	•	From Year 3 onwards.	•	Use variables to store a value. Use the functions define, set, change, show and hide to control the variables.
	Operators	•	From Year 3 onwards.	0	Use the Reporter operators + () - () * ()
				()	/()

	to perfo	orm calculations.
Connect This concept involves developing an understanding of how to safely connect with others.	<ul> <li>Understand online risks and the age rules for sites.</li> <li>Give online</li> <li>Understand online risks and the age rules for sites.</li> <li>Give online</li> <li>Understand online risks and the age rules for sites.</li> </ul>	ribute to blogs that are moderated eachers.  examples of the risks posed by e communications.  erstand the term 'copyright'.  erstand that comments made online that are ful or offensive are the same as bullying.  erstand how online services work.
Communicate This concept involves using apps to communicate one's ideas.	Use a range of applications and devices in order to communicate ideas, work and messages.      Of applications and devices in order to communicate ideas, work and messages.	some of the advanced features oplications and devices in order ommunicate ideas, work or sages professionally.
Collect This concept involves developing an understanding of databases and their uses.	areas across the curriculum.	se and construct databases g applications designed for this purpose eas across the curriculum.