

The following progression of skills are used for the teaching of computing in Key Stage 1 and Key Stage 2.

Milestones 1		Milestone 2	Milestone 3
To Code (Using programmes such as Scratch)			
Motion	<ul style="list-style-type: none"> Control motion by specifying the number of steps to travel, direction and turn. 	<ul style="list-style-type: none"> Use specified screen coordinates to control movement. 	<ul style="list-style-type: none"> Set IF conditions for movements. Specify types of rotation giving the number of degrees.
Looks	<ul style="list-style-type: none"> Add text strings, show and hide objects and change the features of an object. 	<ul style="list-style-type: none"> Set the appearance of objects and create sequences of changes. 	<ul style="list-style-type: none"> Change the position of objects between screen layers (send to back, bring to front).
Sound	<ul style="list-style-type: none"> Select sounds and control when they are heard, their duration and volume. 	<ul style="list-style-type: none"> Create and edit sounds. Control when they are heard, their volume, duration and rests. 	<ul style="list-style-type: none"> Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation
Draw	<ul style="list-style-type: none"> Control when drawings appear and set the pen colour, size and shape. 	<ul style="list-style-type: none"> Control the shade of pens. 	<ul style="list-style-type: none"> Combine the use of pens with movement to create interesting effects.
Events	<ul style="list-style-type: none"> Specify user inputs (such as clicks) to control events. 	<ul style="list-style-type: none"> Specify conditions to trigger events. 	<ul style="list-style-type: none"> Set events to control other events by 'broadcasting' information as a trigger.
Control	<ul style="list-style-type: none"> Specify the nature of events (such as a single event or a loop). 	<ul style="list-style-type: none"> Use IF THEN conditions to control events or objects. 	<ul style="list-style-type: none"> Use IF THEN ELSE conditions to control events or objects.
Sensing	<ul style="list-style-type: none"> Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?). 	<ul style="list-style-type: none"> 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). 	<ul style="list-style-type: none"> Use a range of sensing tools (including proximity, user inputs, loudness and mouse position) to control events or actions
Variables and lists	<p><i>*From Year 3 onwards</i></p>	<ul style="list-style-type: none"> Use variables to store a value. 	<ul style="list-style-type: none"> Use lists to create a set of variables.

		<ul style="list-style-type: none"> • Use the functions define, set, change, show and hide to control the variables. 	
Operators	<i>*From Year 3 onwards</i>	<ul style="list-style-type: none"> • Use the Reporter operators <p>() + () () - () () * () () / () to perform calculations.</p>	<ul style="list-style-type: none"> • Use the Boolean operators <p>() < () () = () () > () ()and() ()or() Not() to define conditions. • Use the Reporter operators <p>() + () () - () () * () () / () to perform calculations. Pick Random () to () Join () () Letter () of () Length of () () Mod () This reports the remainder after a division calculation Round () () of ().</p> </p>

To Connect	<ul style="list-style-type: none"> • Understand online risks and the age rules for sites. 	<ul style="list-style-type: none"> • Understand how online services work. • Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. 	<ul style="list-style-type: none"> • Contribute to class blogs that are moderated by teachers. • Understand that comments made online that are hurtful or offensive are the same as bullying. • Give examples of the risks posed by online communications. • Understand the term 'copyright'. 	<ul style="list-style-type: none"> • Collaborate with class online using sites that are closed and moderated by teachers. • Understand how simple networks are set up and used. 	<ul style="list-style-type: none"> • Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder. • Understand the effect of online comments and show responsibility & sensitivity when online.
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To Communicate	<ul style="list-style-type: none"> • Use applications and devices in order to communicate ideas and work. 	<ul style="list-style-type: none"> • Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally. 	<ul style="list-style-type: none"> • Choose the most suitable applications and devices for the purposes of communication. 	<ul style="list-style-type: none"> • Use many of the advanced features in order to create high quality, professional or efficient communications.
To Collect	<ul style="list-style-type: none"> • Use simple databases to record information in areas across the curriculum. 	<ul style="list-style-type: none"> • Devise and construct databases using applications designed for this purpose in areas across the curriculum. 	<ul style="list-style-type: none"> • Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner. 	