

# Ebchester CE Primary School

## Progression of Learning – Computing Lower KS2



By the end of Year 4		
	Breadth of Study	Knowledge and Skills
<b>Online Safety and Digital Literacy</b>	<p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p><u>Year 3</u></p> <ul style="list-style-type: none"> <li>• Know that some people on the internet should not be trusted.</li> <li>• Know that concerns about what they see online should be reported to a trusted adult.</li> <li>• Use a simple password.</li> <li>• Understand what a digital footprint is and how our online activities affect this.</li> <li>• Independently, be able to find information on the internet.</li> <li>• Know which websites are useful and begin to understand not all might be trustworthy.</li> </ul>
		<p><u>Year 4</u></p> <ul style="list-style-type: none"> <li>• Know that pictures and text shared online can end up with strangers.</li> <li>• Is aware of their digital footprint and knows what has been posted cannot be undone.</li> <li>• Reliably know what to do if they are exposed to unpleasant materials on any device.</li> <li>• Know that having a balance of online and offline activities is important for good health.</li> <li>• Reliably uses a more complex password to access resources.</li> <li>• Know what the key words are to enter a Search engine to find information they want.</li> <li>• Can select useful websites from the results of a search.</li> </ul>
<b>Information Technology</b>	<p>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p>	<p><u>Year 3</u></p> <ul style="list-style-type: none"> <li>• Know how to open shared documents and pictures.</li> <li>• Know how to use software to create a simple poster.</li> <li>• Know how to add to slides to make a simple presentation e.g. PowerPoint.</li> <li>• Create a meaningful document that contains both pictures and text.</li> <li>• Can create and edit images on iPad apps/ Pixlr</li> </ul>
		<p><u>Year 4</u></p> <ul style="list-style-type: none"> <li>• Be able to organise their personal folder effectively for each year at school.</li> <li>• Know how to change font size and style; include shapes and backgrounds and to use the Spellcheck function.</li> <li>• To be able to use sequence to create an effective presentation or video.</li> <li>• Can create simple interactive content e.g. can create a video using iMovie from stills</li> </ul>
<b>Computer Science</b>	<p>design, write and debug programs that accomplish specific goals, including</p>	<p><u>Year 3</u></p> <ul style="list-style-type: none"> <li>• Be able to use a block program (Scratch, Microbit) to make a simple programme using sequencing and timing.</li> </ul>

	<p>controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<ul style="list-style-type: none"> <li>• Use a program (Bluebot, Probots, Scratch) to draw regular 2D shapes.</li> <li>• Begin to use conditionals with support – If I click here then this happens...</li> <li>• Independently be able to debug basic mistakes.</li> <li>• Be able to explain how a simple program works</li> <li>• Can understand that some connections are wired and some are wireless and the internet connects devices</li> </ul>
		<p><u>Year 4</u></p> <ul style="list-style-type: none"> <li>• Can use a variety of inputs and outputs (Scratch, Microbits)</li> <li>• Can use conditionals- If I click here then this happens...</li> <li>• Can use selection and repetition, e.g. create a moving animation in Scratch controlled by mouse or keys</li> <li>• Can identify errors and modify a program (e.g. Scratch, Microbit) predicting the effect of the changes</li> <li>• Be able to annotate a simple screenshot (Scratch) to explain how it works.</li> <li>• Can explain in simple terms how data is broken into packets</li> </ul>