

**Nyewood CE Infant School**  
**Computing Progression in Knowledge and Skills**

**Curriculum Intent**

The **intent** of our curriculum is that it will secure our vision that at Nyewood Church of England Infant School our children are **confident, happy and independent learners** who take an active role **together in God's world**.

**Computing Intent**

At Nyewood CE Infant School children will be able to use technology safely and logically to communicate, learn, understand and become active participants in God's evolving digital world.  
*See separate Progression of Knowledge and Skills document for Internet Safety.*

**EYFS**

Knowledge and Skills Area	Emerging Towards Expectations	Working At Expectations	Exceeding Expectations
	<b>Autumn/Spring/Summer Term</b>		
<b>Using technology across the curriculum</b>	<p><b>Children know...</b> that technology is used in school.</p> <p>The names of some common technology.</p> <p><b>Children can...</b> Complete a simple game or program, with support.</p> <p>Select and use simple technologies in schools, with support.</p> <p>Name the basic features of common technologies.</p> <p><i>e.g. "This is a camera."</i></p>	<p><b>Children know...</b> that technology is used in school.</p> <p>The names of everyday technology.</p> <p><b>Children can...</b> Complete a simple game or program.</p> <p>Select and use technologies in schools.</p> <p>Understand the basic features of common technologies.</p> <p><i>e.g. "The button on the camera takes the photo."</i></p>	<p><b>Children know...</b> that technology is used in different places e.g. in school.</p> <p>The names of a range of technologies.</p> <p><b>Children can...</b> Complete a simple game or program with an understanding of simple components/ buttons/ steps.</p> <p>Select and use technologies in schools.</p> <p>Understand and begin to explain the basic features of different technologies.</p> <p><i>e.g. "The button on the camera takes a photo."</i></p>
<b>Key Vocabulary</b>	Technology, buttons, press, swipe, on/off, use, online, purpose, iPad, Beebot, laptop, camera, Easi-speak, Interactive Whiteboard, game, program		

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Year 1			
Knowledge and Skills Area	Emerging Towards Expectations	Working At Expectations	Exceeding Expectations
<b>Autumn Term</b>			
<b>Using Technology</b>	<p><b>Children know...</b> that technology is used in different places e.g. in school.</p> <p>The names of a range of technologies.</p> <p><b>Children can...</b> Select and use technologies in schools.</p> <p>Understand and begin to explain the basic features of different technologies.</p> <p><i>e.g. "The button on the camera takes a photo."</i></p>	<p><b>Children know...</b> that technology is used in schools and in homes.</p> <p>where technologies are typically found.</p> <p><b>Children can...</b> Select and use technologies in schools and at home, and begin to explain their purpose.</p> <p>Understand and begin to explain features of different technologies.</p> <p><i>e.g. "I am using a camera to take a photo. The button on the camera takes a photo."</i></p>	<p><b>Children know...</b> that technology is used in schools and in homes.</p> <p>where technologies are typically found.</p> <p><b>Children can...</b> Select and use technologies in schools and at home, with an understanding of their purpose.</p> <p>Understand and explain features of different technologies.</p> <p><i>e.g. "I am using a camera to take a photo. The button on the camera takes a photo."</i></p>
	<b>Spring Term</b>		
<b>Being Digitally Literate</b>	<p><b>Children know...</b> How to create digital content.</p> <p><b>Children can...</b> Begin to use technology purposefully to create digital content.</p>	<p><b>Children know...</b> How to retrieve digital content.</p> <p>How to create digital content.</p> <p><b>Children can...</b> Use technology purposefully to create digital content.</p> <p>Use technology purposefully to retrieve digital content.</p>	<p><b>Children know...</b> How to retrieve digital content.</p> <p>How to create digital content.</p> <p>How to manipulate digital content.</p> <p><b>Children can...</b> Use technology purposefully to create digital content. Use technology purposefully to manipulate digital content. Use technology purposefully to retrieve digital content.</p>
	<b>Summer Term</b>		
<b>Programming</b>	<p><b>Children know...</b> That an algorithm is similar to a set of instructions for technology.</p> <p><b>Children can...</b> Complete a simple game or program with an understanding of simple components/ buttons/ steps.</p>	<p><b>Children know...</b> That an algorithm is similar to a set of instructions for technology and needs to be clear and precise.</p> <p><b>Children can...</b> Use a set of instructions (linked to algorithm).</p> <p>Begin to create an algorithm using technologies and explain what an algorithm is.</p>	<p><b>Children know...</b> That an algorithm is similar to a set of instructions for technology and needs to be clear and precise.</p> <p><b>Children can...</b> Create an algorithm using technologies and explain what an algorithm is.</p> <p>Recognise when an algorithm has gone wrong.</p>
	<b>Key Vocabulary</b>	Change, program, algorithm, instructions, create, retrieve, digital content, digitally literate	

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Year 2			
Knowledge and Skills Area	Emerging Towards Expectations	Working At Expectations	Exceeding Expectations
<b>Autumn Term</b>			
<b>Using Technology</b>	<p><b>Children know...</b> that technology is used in schools and in homes.</p> <p>where technologies are typically found.</p> <p><b>Children can...</b> Select and use technologies in schools and at home, with an understanding of their purpose.</p> <p>Understand and explain features of different technologies.</p> <p><i>e.g. "I am using a camera to take a photo. The button on the camera takes a photo."</i></p>	<p><b>Children know...</b> that a wide range of technology is used in schools and in homes.</p> <p>where technologies used in homes and school are typically found.</p> <p><b>Children can...</b> Select and use a range of technologies in schools and at home, with an understanding of their purpose and giving reasons for this.</p> <p>Understand and explain a range of features of different technologies.</p> <p><i>e.g. "I am using a camera to take a photo. You can take a photo by pressing this button and it saves it. To delete the photo you do this..."</i></p>	<p><b>Children know...</b> that a wide range of technology is used in a variety of contexts (e.g. home, school, community) and can talk about these.</p> <p>where technologies used in a variety of contexts (e.g. home, school, community) are typically found.</p> <p><b>Children can...</b> Select, use and compare a range of technologies in a variety of contexts, with an understanding of their purpose and giving reasons for this.</p> <p>Understand and explain a range of features of different technologies, and make connections when necessary.</p> <p><i>e.g. "I am using a camera to take a photo. You can take a photo by pressing this button and it saves it. You can also take photos on the iPads but you do it differently..."</i></p>
	<b>Spring Term</b>		
<b>Being Digitally Literate</b>	<p><b>Children know...</b> How to retrieve digital content.</p> <p>How to create digital content.</p> <p>How to manipulate digital content.</p> <p><b>Children can...</b> Use technology purposefully to create digital content.</p> <p>Use technology purposefully to manipulate digital content.</p> <p>Use technology purposefully to retrieve digital content.</p>	<p><b>Children know...</b> How to retrieve digital content.</p> <p>How to create digital content.</p> <p>How to manipulate digital content.</p> <p>How to organise digital content.</p> <p>How to store digital content.</p> <p><b>Children can...</b> Use technology purposefully to create digital content.</p> <p>Use technology purposefully to manipulate digital content.</p> <p>Use technology purposefully to retrieve digital content.</p>	<p><b>Children know...</b> Confidently the different features of different technologies and software and how they can be used.</p> <p><b>Children can...</b> Use technology purposefully to create digital content to achieve a desired outcome, and talk about my choices.</p> <p>Use technology purposefully to manipulate digital content to achieve a desired outcome, and talk about my choices.</p> <p>Use technology purposefully to retrieve digital content to achieve a desired outcome, and talk about my choices.</p> <p>Use technology purposefully to organise digital content to achieve a desired outcome, and talk about my choices.</p>

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		Use technology purposefully to organise digital content.  Use technology purposefully to store digital content.	Use technology purposefully to store digital content to achieve a desired outcome, and talk about my choices.
<b>Summer Term</b>			
<b>Programming</b>	<p><b>Children know...</b> That an algorithm is similar to a set of instructions for technology and needs to be clear and precise.</p> <p><b>Children can...</b> Create an algorithm using technologies and explain what an algorithm is.</p> <p>Recognise when an algorithm has gone wrong.</p>	<p><b>Children know...</b> What algorithms are and how they are implemented as programs on digital devices.</p> <p>What logical reasoning is.</p> <p><b>Children can...</b> Create an algorithm using logical reasoning to program technologies e.g. Beebots/Scratch.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p> <p>Recognise when and explain how an algorithm has gone wrong.</p>	<p><b>Children know...</b> What algorithms are and how they are implemented as programs on digital devices.</p> <p>What logical reasoning is.</p> <p><b>Children can...</b> Create algorithms using logical reasoning, to program technologies, and explain my choices with reasons.</p> <p>Use logical reasoning to predict the behaviour of simple programs, not just those they are familiar with.</p> <p>Recognise when and explain how an algorithm has gone wrong.</p> <p>Fix an algorithm when it has gone wrong by debugging simple programs.</p>
<b>Key Vocabulary</b>	Manipulate, save, store, debug, software, hardware, organise, precise, logical reasoning, delete		