

Computing						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p>-Knows how to operate simple equipment (turn on iPads)</p> <p>-Show an interest in technological objects e.g. Phones, cameras, iPads.</p>		<p>-I know that information can be retrieved from computers.</p> <p>-E-Safety Day - I know that I need to tell an adult when something online makes them feel, uncomfortable, worried or scared.</p> <p>-I know that computers can help us.</p>		<p>-I can show skills in making toys work by pressing parts or lifting flaps to achieve effects such as a sound.</p>	
Reception		<p>-I can recognise that a range of technology is used in homes and schools. I can select and use technology for simple purposes. (e.g. what could we use if it's dark?)</p>	<p>-E-Safety tasks set for Internet Safety Day- links to PSHE - Know to tell an adult when they see something that makes them feel uncomfortable, worried or scared.</p> <p>- E-Safety -I know that technology needs to be turned off to support our mental health.</p>		<p>-I can experiment through play with Beebots (physical system).</p> <p>- Uses ICT hardware to interact with age-appropriate computer software.</p>	
Year 1	<p>-I can use technology safely, respectfully and responsibly.</p> <p>-I can begin to describe how communication and technology is used outside of school.</p>	<p>-Can write simple algorithms and understand they use precise instructions.</p> <p>-Write and test simple programs.</p> <p>-Use logical reasoning to make predictions.</p>	<p>-E-Safety tasks set for Internet Safety Day- links to PSHE. - Learn how to use avatars to hide their identity online.</p> <p>- E-Safety - Understand there are dangers on the internet.</p>	<p>-I am learning how to locate keys on a keyboard.</p> <p>-With support sign into devices using their own username and passwords.</p> <p>-Understand not to share passwords.</p>		

Year 2	<ul style="list-style-type: none"> -Understand use of algorithms. -Write, test and debug simple programs. -Use logical reasoning to make predictions. -I can use technology safely, respectfully and responsibly. 		<ul style="list-style-type: none"> -E-Safety tasks set for Internet Safety Day- links to PSHE. - To know which comments are positive or negative to put online. E-Safety - To know about the dangers of posting images online. 			<ul style="list-style-type: none"> -I am learning how to touch type on a physical keyboard. -Organise, store, retrieve and manipulate data. -I can independently log onto devices using my own username and password. -Can begin to find relevant images using search engines.
Year 3	<ul style="list-style-type: none"> -I can locate letters on a keyboard at a pace that enables me to record the lesson's learning. -I can use simple keyboard shortcuts. -I can troubleshoot some issues with entering passwords before asking for help from an adult. -I can understand computer networks. -I can understand how computer networks offer different ways to communicate. 		<ul style="list-style-type: none"> -E-Safety tasks set for Internet Safety Day- links to PSHE. - To understand the dangers of strangers online. - E-Safety - Understand issues with spending money online. -I can use technology responsibly. -I can use the internet safely and appropriately. -I can recognise acceptable/unacceptable content. 	<ul style="list-style-type: none"> -I can recognise and name the different components of a computer. -I can design, write and debug programs to achieve specific goals, including solving problems. -I can use logical reasoning to detect and correct errors in programs. -I can predict the outcome of a program which I have written. -I can collect and present data appropriately. 		
Year 4	<ul style="list-style-type: none"> -I can design, write and debug programs to achieve specific goals, including solving problems. -I can use logical reasoning to detect and correct errors in programs. -I can predict the outcome of a program which I've written. 	<ul style="list-style-type: none"> -I can collect and present data appropriately. -I can locate letters on a keyboard at a pace which enables me to record my lesson's learning. -I can use simple keyboard shortcuts. 	<ul style="list-style-type: none"> -E-Safety tasks set for Internet Safety Day- links to PSHE. - To understand what makes a strong password. E-Safety - To understand the dangers of talking to strangers online. 			

	<p>-I can use technology responsibly.</p>	<p>-I can troubleshoot some issues with entering my password before asking an adult for help.</p> <p>-I can recognise and name the different components of a computer.</p>	<p>-I can recognise acceptable and unacceptable behaviour and content.</p> <p>-I can use the internet safely and appropriately.</p> <p>-I can understand computer networks work and how data can be moved quickly.</p> <p>-I can understand how computer networks offer different ways to communicate.</p>			
<p>Year 5</p>		<p>-I can design and write programs to solve problems.</p> <p>-I can use sequences, repetitions, inputs, variables and outputs in programs.</p> <p>-I can detect and correct errors in programs.</p> <p>-I can solve problems in writing programs by decomposing them into smaller parts.</p>	<p>-E-Safety tasks set for Internet Safety Day- links to PSHE --To understand different the types of malwares.</p> <p>-E-Safety - How to communicate responsibly online.</p> <p>-I can understand uses of networks for collaboration and communication.</p> <p>-I can recognise the difference between hardware and software.</p> <p>-I can understand the importance of using technology safely, respectfully and responsibly.</p> <p>-I can identify a range of ways to report concerns about content and contrast.</p> <p>-I can explain the difference between input and output devices.</p>	<p>-I can locate keys on a keyboard quickly and type at pace which allows me to record my work.</p> <p>-I can confidently use keyboard shortcuts.</p> <p>-I can simulate physical systems.</p> <p>-I understand how wi-fi works. Link to female inventor Hedy Lamarr.</p>		<p>-I can combine software to accomplish given goals on a range of digital devices.</p> <p>-I can appreciate how search engines are ranked.</p> <p>-I can be discerning in evaluating digital content.</p>

Year 6			<p>-E-Safety tasks set for Internet Safety Day- links to PSHE - To understand what cyber-bullying is and how to respond.</p> <p>E-Safety - To understand that images can be biased or unreliable.</p> <p>-I can identify a range of ways to report concerns about content and contact. - including social media issues outside of school.</p> <p>-I can understand uses of networks for collaboration and communication.</p>		<p>-I design and write programs to solve problems.</p> <p>-I can solve problems by decomposing them into smaller parts.</p> <p>-I can use sequences, repetition, inputs, variables and outputs in programs.</p> <p>-I can detect and correct errors in programs.</p> <p>-Understand that computers follow instructions literally and cannot infer.</p> <p>-I can begin to use program loops, the exit of which is governed by a variable.</p>	<p>-I can explain what binary is and how all data can be represented using binary code.</p> <p>-I can combine a variety of software to accomplish given goals on a range of digital devices.</p> <p>-I can analyse and evaluate information and data.</p> <p>-I can be discerning in evaluating digital content.</p> <p>-I can confidently type on a keyboard, at a pace which enables me to record my work.</p> <p>-I can confidently use keyboard shortcuts accurately and independently.</p> <p>-I can recognise the audience when designing and creating digital content.</p>