



FEDERATION CURRICULUM OVERVIEW – BEING A COMPUTER USER



In September 2020 we will move to Purple Mash planning and assessment so this document is for the Recovery curriculum

	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
Intent	To build on previous EYFS knowledge and skills. Year 1 has a particular focus on	To build on knowledge and skills taught in Year 1. Year 2 has a particular focus on writing programs with instructions and predict the outcomes	To build on Year 2 skills and knowledge. Year 3 focus on using software to design, create and present content.	To build on knowledge and skills taught in Year 3. Year 4 focus on using software to control models on screen and debug programs.	To build on knowledge and skills taught in Year 4. Year 5 focus on providing sequences of instructions to control devices and calculate information when searched.	To build on knowledge and skills taught in Year 5. Year 6 focus on using problem solving to find errors and design solutions.
	<u>Algorithms and programming</u> I create a series of instructions. I plan a journey for a programmable toy. <u>Information technology</u> I create digital content. I store digital content. I retrieve digital content.	<u>Algorithms and programming</u> I use a range of instructions (e.g. direction, angles, turns). I test and amend a set of instructions. I find errors and amend. (debug) I write a simple program and test it.	<u>Algorithms and programming</u> I design a sequence of instructions, including directional instructions. I write programs that accomplish specific goals. I work with various forms of output. <u>Information technology</u>	<u>Algorithms and programming</u> I experiment with variables to control models. I give an on-screen robot specific instructions that takes them from A to B. I make an accurate prediction and explain why I believe something will happen	<u>Algorithms and programming</u> I combine sequences of instructions and procedures to turn devices on and off. I use technology to control an external device. I design algorithms that use repetition & 2-way selection.	<u>Algorithms and programming</u> I design a solution by breaking a problem up. I recognise that different solutions can exist for the same problem. I use logical reasoning to detect errors in algorithms.

	<p>I use a web site.</p> <p>I use a camera.</p> <p>I record sound and play back.</p> <p><u>Digital literacy</u> I use technology safely.</p> <p>I keep personal information private.</p>	<p>I predict what the outcome of a simple program will be (logical reasoning).</p> <p>I understand that algorithms are used on digital devices.</p> <p>I understand that programs require precise instructions.</p> <p><u>Information technology</u> I organise digital content.</p> <p>I retrieve and manipulate digital content.</p> <p>I can navigate the web to complete simple searches safely.</p> <p><u>Digital literacy</u> I use technology respectfully.</p> <p>I know where to go for help if I am concerned.</p> <p>I know how technology is used in school and outside of school.</p>	<p>I use a range of software for similar purposes.</p> <p>I collect information.</p> <p>I design and create content.</p> <p>I present information.</p> <p>I search for information on the web in different ways.</p> <p>I manipulate and improve digital images.</p> <p><u>Digital literacy</u> I use technology respectfully and responsibly and safely.</p> <p>I know different ways I can get help if I am concerned.</p> <p>I understand what computer networks do and how they provide multiple services.</p> <p>I can discern where it is best to use technology and where it adds little or no value.</p>	<p>(linked to programming).</p> <p>I de-bug a program and explain what I have done</p> <p><u>Information technology</u> I select and use software to accomplish given goals.</p> <p>I collect and present data.</p> <p>I produce and upload a pod cast.</p> <p><u>Digital literacy</u> I recognise acceptable and unacceptable behaviour using technology.</p>	<p><u>Information technology</u> I analyse information.</p> <p>I evaluate information.</p> <p>I understand how search results are selected and ranked.</p> <p>I can edit a film.</p> <p><u>Digital literacy</u> I understand that you have to make choices when using technology and that not everything is true and/or safe.</p>	<p>I use selection in programs.</p> <p>I work with variables.</p> <p>I explain how an algorithm works.</p> <p>I explore 'what if' questions by planning different scenarios for controlled devices.</p> <p><u>Information technology</u> I safely select, use and combine software on a range of digital devices.</p> <p>I use a range of technology for a specific project.</p> <p><u>Digital literacy</u> I discuss the risks of online use of technology.</p> <p>I identify how to minimise risks.</p>
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