

Computing Progression Map (based on Purple Mash units)

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Computer Science	<p>Know that a series of instructions creates a result.</p> <p>Know and use directional language</p> <p>Know how to record a very simple algorithm is symbols</p> <p>Know how to put an instruction into a digital robot.</p>	<p>Know that algorithms are a set of instructions used to solve a problem or achieve an objective</p> <p>Know that programs work by following precise instructions</p> <p>Know how to work out what is wrong in a simple algorithm.</p> <p>Know how to write their own simple algorithm</p> <p>Know how read code to predict an outcome</p>	<p>Know and can explain what an algorithm is.</p> <p>Know how to design a simple algorithm with precise instructions</p> <p>Know how to write code to achieve an end task using a repeating command</p> <p>Know how to identify and correct errors in code with support .</p>	<p>Know how to design an algorithm from a more simple real life situation</p> <p>Know how to write code to achieve an end task using a timer command.</p> <p>Know how to identify an error in their code and fix it.</p> <p>Know how to begin to read more complex coding and identify and fix errors in it.</p>	<p>Know how to design write and debug programs including controlling or simulating physical systems.</p> <p>Know how to develop the complexity of their coding using increased variables. e.g if statements</p> <p>Know how to use inputs and outputs e.g print screen ,</p>	<p>Know how to design an algorithm from a more complex real life situation</p> <p>Know how to use sequence, selection and repetition and other coding structures when designing and writing code</p> <p>Know how the world wide web / internet has increased opportunities for better communication and working together</p>	<p>Know how to turn a complex programming task into an algorithm using abstraction and by applying previous learning.</p> <p>Know how to debug and test a program using a logical method.</p> <p>Know how to use more complex coding including structures e.g. nesting</p> <p>Know and understand the value of functions</p> <p>Know the difference between the World Wide Web and the Internet.</p> <p>Know what a WAN and LAN are</p>

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Information Technology	Know how to use different digital technologies to save their work. e.g. take a photograph, video,	Know how to name, save and retrieve work.	Know how to organise data using a simple database Know how to edit digital data Know and use a range of media(photos, text and sound)	Know how to carry out a simple search to retrieve digital content. Know that to carry out a search they have to use a search engine and connect to the internet. Know how to collect, analyse, evaluate and present data using specifically chosen software Know how to send an email	Know the function, features and layout of a search engine. Know how to assess selected webpages for basic information and credibility with support. Know how to use a range of software programs so they can choose the one they want to present information and data.	Know how to search with greater complexity for digital content using a search engine Know and can explain how credible a webpage is Know how to select use and combine a variety of software on a range of digital devices Know how and are able to use different ways of sharing digital content	Know how to use a filter when searching for digital content Know how to compare ranges of digital content in terms of quality and accuracy. Know how to create digital content that is appropriate to the audience. Know how to design and create their own blog.

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Digital Literacy	<p>Know what digital technology they have and use at home</p> <p>Know how to ask an adult for help when using technology</p>	<p>Know what information technology is used outside school</p> <p>Know why they should use computing safely and never tell people online anything personal</p> <p>Know they must keep usernames and passwords safe</p>	<p>Know how to retrieve digital content using a search engine</p> <p>Know the consequences of using online searches incorrectly.</p> <p>Know that if they are worried about anything online to speak to a trusted adult.</p>	<p>Know and can explain why they must keep passwords safe</p> <p>Know and can explain why it is important to follow the computing safety rules</p> <p>Know how to report unacceptable content or behaviours that worry them.</p>	<p>Know how to use technology safely, respectfully and responsibly</p> <p>Know and recognise unacceptable and acceptable behaviours online</p> <p>Know a range of different ways to report concerns about content or unacceptable behaviours</p>	<p>Know common online safety rules and apply them whenever using technology.</p> <p>Know that their online behaviour can affect the mental wellbeing of themselves and others.</p>	<p>Know the value of preserving their privacy when online for their own and others safety</p> <p>Know and can recognise discreet inappropriate behaviour online and report it.</p>
Purple Mash programs		<p>2Code</p> <p>2Go</p> <p>2Quiz</p> <p>2Count</p>	<p>2Investigate</p> <p>2Sequence</p> <p>2Publish</p> <p>2Respond</p>	<p>Logo</p> <p>2Email</p> <p>2Question</p> <p>2Graph</p> <p>2Respond</p>	<p>Logo</p> <p>2Connect</p> <p>2Publish</p>	<p>2Blog</p> <p>2Email</p> <p>2Code</p>	<p>2Respond</p> <p>2Blog</p>

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