



COMPUTING - Year Group Key Learning Progression Document

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science					
<p>Understand what algorithms are.</p> <p>Create simple programs</p>	<p>Understand that algorithms are implemented as programs on digital devices.</p> <p>Understand that programs execute by following precise and unambiguous instructions.</p> <p>Debug simple programs.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	<p>Write programs that accomplish specific goals.</p> <p>Use sequence in programs.</p> <p>Work with various forms of input.</p> <p>Work with various forms of output.</p>	<p>Design programs that accomplish specific goals.</p> <p>Design and create programs.</p> <p>Debug programs that accomplish specific goals.</p> <p>Use repetition in programs.</p> <p>Control or simulate physical systems.</p> <p>Use logical reasoning to detect and correct errors in programs.</p> <p>Understand how computer networks can provide multiple services, such as the World Wide Web.</p> <p>Appreciate how search results are selected.</p>	<p>Solve problems by decomposing them into smaller parts.</p> <p>Use selection in programs.</p> <p>Work with variables.</p> <p>Use logical reasoning to explain how some simple algorithms work</p> <p>Use logical reasoning to detect and correct errors in algorithms.</p> <p>Understand computer networks, including the internet.</p> <p>Appreciate how search results are ranked.</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.</p> <p>Solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection, and repetition in programs.</p> <p>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>

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Digital Literacy					
<p>Use technology safely.</p> <p>Keep personal information private.</p> <p>Recognise common uses of information technology beyond school.</p>	<p>Use technology respectfully.</p> <p>Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p>	<p>Use technology responsibly.</p> <p>Identify a range of ways to report concerns about contact.</p>	<p>Understand the opportunities computer networks offer for communication.</p> <p>Identify a range of ways to report concerns about content.</p> <p>Recognise acceptable/unacceptable behaviour.</p>	<p>Understand the opportunities computer networks offer for collaboration.</p> <p>Be discerning in evaluating digital content.</p> <p>Identify a range of ways to report concerns about content.</p>	<p>Use technology safely, respectfully and responsibly.</p> <p>Recognise acceptable/unacceptable behaviour.</p> <p>Identify a range of ways to report concerns about content and contact.</p>
Information Technology					
<p>Use technology purposefully to create digital content.</p> <p>Use technology purposefully to store digital content.</p> <p>Use technology purposefully to retrieve digital content.</p>	<p>Use technology purposefully to organise digital content.</p> <p>Use technology purposefully to manipulate digital content.</p>	<p>Use search technologies effectively.</p> <p>Use a variety of software to accomplish given goals.</p> <p>Collect information.</p> <p>Design and create content.</p> <p>Present information</p>	<p>Select a variety of software to accomplish given goals.</p> <p>Select, use and combine internet services.</p> <p>Analyse information.</p> <p>Evaluate information.</p> <p>Collect data.</p> <p>Present data.</p>	<p>Combine a variety of software to accomplish given goals.</p> <p>Select, use and combine software on a range of digital devices.</p> <p>Analyse data.</p> <p>Evaluate data.</p> <p>Design and create systems.</p>	<p>Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content Select, use and combine a variety of software (including internet services)</p>

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					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,