



## Computing Progression of Skills

### Computer Science

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Explore programmable toys and digital devices through play.</p> <ul style="list-style-type: none"><li>- Understand cause and effect when pressing buttons or giving simple instructions.</li></ul>	<p>Understand algorithms as a set of instructions.</p> <ul style="list-style-type: none"><li>- Create and follow simple programs (e.g. programmable toys).</li><li>- Predict outcomes of simple sequences.</li></ul>	<p>Understand algorithms can be implemented on digital devices.</p> <ul style="list-style-type: none"><li>- Create simple programs using software.</li><li>- Debug errors in simple programs.</li><li>- Use logical reasoning to predict outcomes.</li></ul>	<p>Design, write and debug simple programs to achieve goals.</p> <ul style="list-style-type: none"><li>- Use sequence, selection and repetition in programs.</li><li>- Understand inputs and outputs in programs.</li></ul>	<p>Design and debug more complex programs.</p> <ul style="list-style-type: none"><li>- Use logical reasoning to explain how algorithms work.</li><li>- Understand computer networks including the internet.</li></ul>	<p>Solve problems by decomposing them into smaller parts.</p> <ul style="list-style-type: none"><li>- Use variables and different forms of input and output.</li><li>- Understand how search engines work and how results are ranked.</li></ul>	<p>Design and evaluate programs using sequence, selection, repetition and variables.</p> <ul style="list-style-type: none"><li>- Use logical reasoning to detect and correct errors.</li><li>- Understand how computer networks provide services such as the internet and email.</li></ul>

### Information Technology

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Use digital devices to take photos, record sounds or play games.</p> <ul style="list-style-type: none"><li>- Explore digital mark-making and creative tools.</li></ul>	<p>Use technology purposefully to create, store and retrieve content.</p> <ul style="list-style-type: none"><li>- Use simple applications to write, draw or present ideas.</li></ul>	<p>Create and edit digital content including text, images and sound.</p> <ul style="list-style-type: none"><li>- Use software to collect, organise and present information.</li></ul>	<p>Use a range of programs to create content for specific purposes.</p> <ul style="list-style-type: none"><li>- Understand how to store and retrieve digital content efficiently.</li></ul>	<p>Select, use and combine software for specific goals.</p> <ul style="list-style-type: none"><li>- Use simple databases and spreadsheets to organise information.</li></ul>	<p>Use a variety of software to accomplish tasks and present data.</p> <ul style="list-style-type: none"><li>- Use spreadsheets to model real-life situations.</li></ul>	<p>Use software tools to analyse and present information.</p> <ul style="list-style-type: none"><li>- Design and create systems to accomplish goals.</li><li>- Use technology to collect, analyse, evaluate and present data.</li></ul>



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### Digital Literacy

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Know that digital devices can be used for communication and play.</p> <ul style="list-style-type: none"><li>- Begin to understand safe use of digital devices with adult support.</li></ul>	<p>Keep personal information private.</p> <ul style="list-style-type: none"><li>- Recognise where to go for help if concerned about online content.</li><li>- Use technology safely and respectfully.</li></ul>	<p>Understand what personal information is and why it should be kept private.</p> <ul style="list-style-type: none"><li>- Recognise common uses of information technology beyond school.</li><li>- Use technology safely and responsibly.</li></ul>	<p>Identify a range of ways to report concerns about content and contact.</p> <ul style="list-style-type: none"><li>- Understand what makes a strong password and why it is important.</li><li>- Recognise the benefits and risks of online communication.</li></ul>	<p>Understand the importance of digital footprints.</p> <ul style="list-style-type: none"><li>- Identify ways to protect devices from viruses and malware.</li><li>- Evaluate online content for reliability and bias.</li></ul>	<p>Recognise acceptable and unacceptable online behaviour.</p> <ul style="list-style-type: none"><li>- Understand issues of copyright and ownership of digital content.</li><li>- Understand how to protect identity and privacy online.</li></ul>	<p>Use technology safely, respectfully and responsibly.</p> <ul style="list-style-type: none"><li>- Understand the impact of technology on society and individuals.</li><li>- Evaluate and manage online risks including phishing and scams.</li></ul>