

## Computing Key Knowledge Progression

	Computer Science	Information Technology	Digital Literacy
<b>EYFS</b>	<p>I know how to use technology to show my learning.            I know how to use simple software to make something happen.            I know and can talk about different kinds of information such as pictures, video, text and sound.            I know and can identify rules that help keep us safe and healthy in and beyond the home when using technology.  <i>Instruction, photo, picture, video, text, sound, online, rules</i></p>		
<b>Year 1</b>	<p>I understand what algorithms are.            I know how to create a simple program on a digital device e.g. Bee Bot or tablet.  <i>Algorithm, debug, program,</i></p>	<p>I know how to use technology with support, to create, store and retrieve digital content such as text and images.  <i>Edit, voiceover, image, zoom</i></p>	<p>I understand how to keep their personal information private and understand they need to use technology safely and respectfully.  <i>Trusted adult, permission, password</i></p>
<b>Year 2</b>	<p>I know how to use logical reasoning to predict the outcome of algorithms.            I understand decomposition is breaking objects/processes down.  <i>Algorithm, decomposition, debug, prediction,</i></p>	<p>I know how to make a range of simple digital assets such as presentations, movies, audio files and charts.  <i>Import, pictogram, crop, filter</i></p>	<p>I know how to recognise situations using technology and the internet involving content and contact that are not safe and know where to go for help.  <i>Sharing, bullying, untrue, private</i></p>
<b>Year 3</b>	<p>I know how to plan and write algorithms and programs using sequence and repetition.            I understand abstraction is focusing on important information.            I understand why computers are networked.  <i>Abstraction, sequence, forever/infinite loop, count controlled loop, LAN (Local Area Network)</i></p>	<p>I know how to use a variety of software and devices to create digital assets such as programs and multimedia content for a defined purpose.  <i>Interactive, audio, background, effects (brush tools), branching database</i></p>	<p>I know how to use technology safely and respectfully and have an understanding of how to keep information secure.  <i>accurate, age restrictions, data, copyright</i></p>
<b>Year 4</b>	<p>I know how to design and write more complex algorithms and programs using sequence, repetition and selection.            I know how to use logical reasoning to detect and correct errors in programs.</p>	<p>I know how to use and combine a variety of software and devices with increasing independence, to create a range of digital assets such as programs, graphs / charts and multimedia content.</p>	<p>I know how to use technology respectfully, responsibly and safely, knowing how to keep their information secure.</p>

	<p>I understand the difference between the Internet and WWW.</p> <p><i>Logical reasoning, selection, loop, input, output, internet, router, WWW, data, web page</i></p>	<p><i>Questionnaire, multimedia, hyperlinks, media library</i></p>	<p><i>Healthy, unhealthy online behaviours, fake news, screen time</i></p>
<b>Year 5</b>	<p>I know how to design and write programs using sequence, repetition, selection and variables.</p> <p>I know how to evaluate the effectiveness of algorithms.</p> <p>I appreciate how pages are ranked in a search engine.</p> <p><i>Data, condition, variables, value, search engine, index, ranking algorithm, keyword, web crawler</i></p>	<p>I know how to select, use and combine a range of software and use a wider range of applications to create a variety of digital assets such as programs, systems and multimedia content for a defined purpose.</p> <p><i>Publish, chorus, compose, Split screen, fade</i></p>	<p>I know how to use technology safely, respectfully and responsibly and continue to develop skills to identify risks involved with contact and content, including evaluating digital content.</p> <p><i>Copied, modified, trustworthy, reliability, scams</i></p>
<b>Year 6</b>	<p>I know how to design and create more complex programs using sequence, repetition, selection and variables appropriately.</p> <p>I know how to recognise and make use of patterns in my design and code.</p> <p>I understand what HTML is and recognize HTML tags.</p> <p><i>Pattern, modify, command, conditional, variable, HTML (HyperText Markup Language)</i></p>	<p>I know how to independently select, use and combine a wide range of software to design and create a range of digital assets such as programs, systems and multimedia content for a defined purpose and audience.</p> <p><i>Design, navigation, homepage, URL, duplicate</i></p>	<p>I know how to be a competent user of technology using it safely, respectfully and responsibly and know about how to develop a positive online reputation.</p> <p><i>Inappropriate, stereotypes, screen grabs, anonymity, ad targeting, phishing</i></p>