

Key Curriculum Skills, Knowledge and Progression: Computing



EYFS	Year 1	Year 2
<p>In the Early Years Foundation Stage, children are exposed to a range of different technologies and computer equipment to begin their journey towards being a competent and enthusiastic individual in Computing. This will be seen through the use of BeeBots and other programmable toys, as well as numerous opportunities for small group iPad work assisted by an adult, in order to support the children meeting the Sebert Wood curriculum goals.</p>	<p>Understand that algorithms are lists of simple instructions to complete an activity</p> <p>Create and debug simple programs by breaking programs down into step by step instructions</p> <p>Use technology purposefully to create pictures, text and audio</p> <p>Understand how to log on and create files</p> <p>Recognise common uses of information technology beyond school</p> <p>Use technology safely and respectfully, keeping personal information private</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>Understand that algorithms are lists of simple instructions to complete an activity and begin to explore more complex systems</p> <p>Create and debug programs by breaking programs down into step by step instructions</p> <p>Understand what a program is likely to do based on a set of instructions</p> <p>Use technology purposefully to create pictures, text, audio and use numbers</p> <p>Understand how to log on, create files and save work that can be retrieved</p> <p>Recognise common uses of information technology beyond school</p> <p>Use technology safely and respectfully, keeping personal information private</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>

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<i>Year 3</i>	<i>Year 4</i>	<i>Year 5</i>	<i>Year 6</i>
<p>Design, write and debug programs</p> <p>Understand how changing variables affect the outcomes</p> <p>Be able to use logic to explain why a program does or doesn't work</p> <p>Be able to retrieve information efficiently when searching online</p> <p>Select, use and combine a variety of software to design and create a range of content, including presenting data and information using PowerPoint</p> <p>Learn how to use technology safely, respectfully and responsibly</p>	<p>Design, write and debug programs that accomplish specific goals</p> <p>Be able to create sequences and make selections</p> <p>Be able to use logic to explain why a program does or doesn't work and begin to suggest alternative solutions</p> <p>To appreciate how information and links are selected when searching online</p> <p>Select, use and combine a variety of software on a range of digital devices to design and create a range of programs and content that accomplish given goals</p> <p>Recognise acceptable/unacceptable behaviour online</p>	<p>Design, write and debug programs that accomplish specific goals, including simulating physical systems</p> <p>Know the effect of variables in a program</p> <p>Be able to sequence, make selections and use repetition in programs</p> <p>Be able to develop logical reasons (applying rules in a systematic way to complete a task) to detect errors (bugs)</p> <p>Be able to email safely and collaborate and share on shared sites and understand how this is possible within simple networks.</p> <p>Use as a communication tool to go beyond emailing (E.g. blogging)</p> <p>Design and create a range of content that accomplish given goals, including numerical and data applications e.g. Excel, podcasting and safe use of messaging</p> <p>Identify a range of ways to report concerns about content and contact online</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling physical systems</p> <p>To understand the effect of inputs (adding data into a program or computer system) and outputs/variables</p> <p>Be able to develop logical reasons (applying rules in a systematic way to complete a task) to detect and correct errors (bugs)</p> <p>Understand that networks, including the internet, can provide multiple services and appreciate how the network operates</p> <p>To appreciate how information and links are ranked when searching online</p> <p>To use IT to create multimedia presentations for audiences beyond the classroom</p> <p>Always use technology safely, respectfully and responsibly</p>