

Computing - Progression of skills



Skills	Reception (40-60 months)	Year 1	Year 2
Computer Science	<p>Understand that there is a cause and effect as a result of their actions.</p> <p>Use programmable toys and devices (bee-bots and mini mash) to move forwards and backwards.</p> <p>Explore outcomes when individual buttons are pressed and combine these together to follow shapes or draw a simple route.</p>	<p>Understand what an algorithm is and understands computers need precise instructions. Demonstrates care and precision to avoid errors.</p> <p>Know that algorithms written for computers are called programs.</p> <p>Create simple programs.</p> <p>Executes, checks and changes programs. Understands that programs execute by following precise instructions.</p> <p>Understands that computers have no intelligence and that computers can do nothing unless a program is executed.</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. Know that an unexpected outcome is due to the code that they have created and can make logical attempts to fix the code.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>
Information Technology	<p>Use Chromebook keyboard to write their name or simple caption.</p> <p>Safely use technology by opening and closing the Chromebooks safely.</p>	<p>Recognises that digital content can be represented in many forms.</p> <p>Obtains content from the world wide web using a web browser.</p> <p>Uses software with teacher support to create, store and edit digital content using appropriate file names.</p> <p>Understands that people interact with computers.</p> <p>Talks about their work and makes changes to improve it.</p>	<p>Recognises different types of data (e.g. text/number). Recognises that data can be structured in tables to make it useful.</p> <p>Navigates the web and can carry out simple web searches to collect digital content.</p> <p>Uses technology with increasing independence to purposefully organise digital content.</p> <p>Talks about their work and makes improvements to solutions based on feedback received.</p>

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<p>Digital Literacy</p>	<p>Understand they can speak to a trusted adult about what they have seen and say if something they have seen makes them feel bad. Discuss with an adult what they are doing on the computer. Recognise some technology that is used in places such as homes and schools</p>	<p>Understands the importance of communicating safely and respectfully online, and the need for keeping personal information private. Knows what to do when concerned about content or being contacted online. Recognise common uses of information technology beyond school.</p>	<p>Use technology respectfully. Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Shows an awareness for the quality of digital content collected.</p>
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