



# Ashleigh Primary School Computing Skills and Vocabulary Progression Map

Information Technology

Computer Science

E-Safety

	Skills Needed by End of Year	Vocabulary Needed by End of Year
Year 1	<ul style="list-style-type: none"> <li>Understand how to use a camera on a device.</li> <li>Understand that you can save files onto tablets/computers.</li> <li>Predict how a set of instructions will affect a machine.</li> <li>Be able to give a machine a set of instructions to move.</li> <li>Understand that we need to follow certain rules to remain safe when visiting places online.</li> </ul>	<ul style="list-style-type: none"> <li>Save</li> <li>Tablet</li> <li>Camera</li> <li>Photograph</li> <li>Consent</li> <li>Create</li> <li>App</li> <li>Instructions</li> <li>Machine</li> <li>Program</li> <li>Predict</li> <li>Movement</li> <li>Forward</li> <li>Backwards</li> <li>Turn</li> <li>Right</li> <li>Left</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>Be able to open saved files and edit them on a tablet/computer.</li> <li>Understand how to add text and a picture to an app and edit them.</li> <li>Be able to program a computer, giving it a set of instructions to move an image.</li> <li>Be able to debug a set of instructions and explain why they wouldn't work.</li> <li>Understand what the internet is and what it can be used for.</li> <li>Learn that many websites ask for information that is private and understand how to responsibly handle such requests.</li> </ul>	<ul style="list-style-type: none"> <li>Edit</li> <li>Text</li> <li>Font</li> <li>Open</li> <li>Caps Lock</li> <li>Backspace</li> <li>Keyboard</li> <li>Debug</li> <li>Code</li> <li>Algorithm</li> <li>Stage</li> <li>Character</li> <li>Repeat</li> <li>Internet</li> </ul>
Year 3	<ul style="list-style-type: none"> <li>Understand how search engines work, how to use them and take information from them safely.</li> <li>Understand what keyword searching is and how to select keywords to produce the best search results.</li> <li>Understand what an E-Book is and how it can be used to present information.</li> <li>Understand that filters can keep you safe when searching for information and images on the internet.</li> <li>Be able to use loops and procedures when programming an algorithm.</li> <li>Be able to stay safe online by choosing websites that are appropriate to visit and avoid those that are not inappropriate sites.</li> </ul>	<ul style="list-style-type: none"> <li>Digital</li> <li>Information</li> <li>Website</li> <li>Trustworthy</li> <li>Spell Check</li> <li>Search Engine</li> <li>Search Ranking</li> <li>E-Book</li> <li>Filters</li> <li>Loops</li> <li>Procedures</li> <li>Sprite</li> <li>Script</li> <li>Backdrop</li> <li>Animate</li> <li>Appropriate</li> <li>Inappropriate</li> </ul>

Year 4	<ul style="list-style-type: none"> <li>• Understand how to add video and voice recordings onto an app.</li> <li>• Understand how to cut and trim videos.</li> <li>• Write and debug a program controlling physical systems.</li> <li>• Be able to program an electrical circuit to turn on/off depending on the input.</li> <li>• Explore what cyber-bullying means &amp; what to do when they encounter it.</li> </ul>	<ul style="list-style-type: none"> <li>• Video</li> <li>• Trailer</li> <li>• Cut</li> <li>• Trim</li> <li>• Transition</li> <li>• Voiceover</li> <li>• Input</li> <li>• Output</li> <li>• Appliance</li> <li>• Circuit</li> <li>• Switches</li> <li>• Crumble</li> <li>• Cyber-bullying</li> <li>• Safe</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>• Understand how to present information collaboratively using online platforms.</li> <li>• Understand how to use transitions and animations on a presentation app.</li> <li>• Understand that copyright law means it is illegal to publish images owned by somebody else.</li> <li>• Be able to adapt an algorithm depending on the type of input.</li> <li>• Discuss what actions could be taken if they are uncomfortable or upset online.</li> <li>• Understand what a secure password might look like for age-appropriate websites.</li> </ul>	<ul style="list-style-type: none"> <li>• Communicate</li> <li>• Collaborate</li> <li>• Cloud</li> <li>• Transition</li> <li>• Animation</li> <li>• Presentation</li> <li>• Copyright</li> <li>• Slide</li> <li>• Commands</li> <li>• Pattern</li> <li>• Password</li> <li>• Abuse</li> <li>• Reporting</li> </ul>
Year 6	<ul style="list-style-type: none"> <li>• Understand how to collect, present, analyse and evaluate data using a spreadsheet.</li> <li>• Use formulas and formatting to display data quickly and effectively.</li> <li>• Be able to use Python to code, understanding the role of 'variables' and 'functions'.</li> <li>• Be able to design and create a game using Python code.</li> <li>• Understand what social media is and what choices you should make when using it.</li> <li>• Understand how to protect devices from virus threats.</li> </ul>	<ul style="list-style-type: none"> <li>• Data</li> <li>• Spreadsheet</li> <li>• Function</li> <li>• Formatting</li> <li>• Collection</li> <li>• Graphs/Charts</li> <li>• Interpret</li> <li>• Sort</li> <li>• Python</li> <li>• Variables</li> <li>• Functions</li> <li>• Print</li> <li>• If/Else</li> <li>• 'For' Loops</li> <li>• Range</li> <li>• Viruses</li> <li>• Social Media</li> </ul>