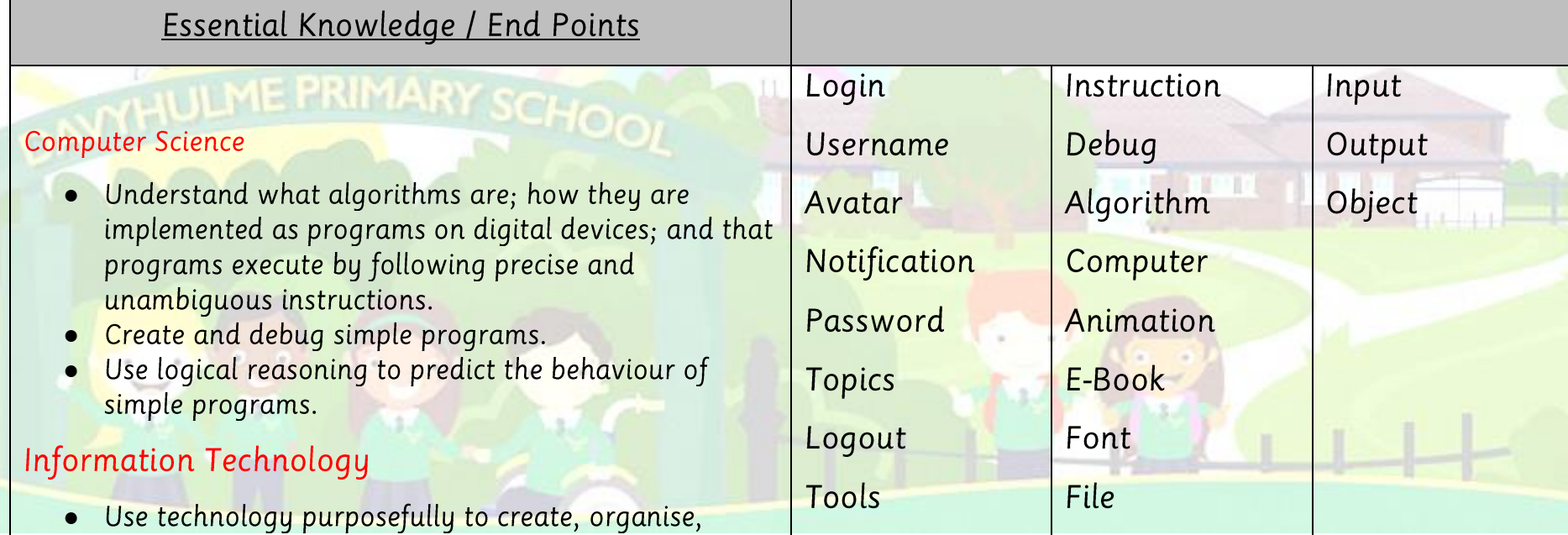


## Computing

### Essential Knowledge / End Points

Record of progression of key skills (knowledge) and vocabulary

<u>Year 1</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
 <p><b>Computer Science</b></p> <ul style="list-style-type: none"><li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li><li>• Create and debug simple programs.</li><li>• Use logical reasoning to predict the behaviour of simple programs.</li></ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"><li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li></ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"><li>• Recognise common uses of information technology beyond school.</li><li>• Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about</li></ul>	Login Username Avatar Notification Password Topics Logout Tools	Instruction Debug Algorithm Computer Animation E-Book Font File	Input Output Object
	My Work Save Sort Criteria	Sound Effect Code Command Event	

content or contact on the internet or other online technologies.	Pictogram Data Collate	Execute	
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<u>Year 2</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
<b>Computer Science</b> <ul style="list-style-type: none"> <li>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>Create and debug simple programs.</li> <li>Use logical reasoning to predict the behaviour of simple programs.</li> </ul>	Action	Search	Sound effect
<b>Information Technology</b> <ul style="list-style-type: none"> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>	Algorithm	Internet	Node
	Background	Attachment	Animated
<b>Digital Literacy</b> <ul style="list-style-type: none"> <li>Recognise common uses of information technology beyond school.</li> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about</li> </ul>	Collision	Email	
	Detection	Digital	
	Key Pressed	Footprint	
	Design Mode	Copy & Paste	
	Predict	Cells	
	Nesting	Columns	
	Properties	Spreadsheet	
	Sequence	Binary Tree	
	Scene	Database	
	Text	Search Engine	

content or contact on the internet or other online technologies.	Scale	Palette Template	
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<u>Year 3</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
<b>Computer Science</b> <ul style="list-style-type: none"> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</li> </ul>	Algorithm Blocks of Command Alert Flowchart Button Output Repeat Nesting Procedure Values Sequence	PEGI Rating Advance Mode Spin Tool Top Row Keys Bottom Row Keys Home Row Keys Space Bar CC Send Compose Address Book	Branching Database Question Simulation Field Bar Chart Block Graph Line Graph Slide Show Stock Image Transition Text Box
<b>Information Technology</b>			

- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

### Digital Literacy

- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.

Blog  
Spoof Website

Save to Draft

Text Formatting



<u>Year 4</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
<p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>	<p>Action</p> <p>Alert</p> <p>Coordinates</p> <p>If/Else</p> <p>Object Types</p> <p>Repeat Until</p> <p>Variable Value</p> <p>Computer Virus</p> <p>Cookies</p> <p>Copyright</p> <p>Digital Footprint</p> <p>Identity Theft</p> <p>Malware</p> <p>Phishing</p> <p>Spam</p> <p>Average</p>	<p>Underline</p> <p>LOGO</p> <p>BK</p> <p>FD</p> <p>RT</p> <p>LT</p> <p>SETPC</p> <p>PU</p> <p>PD</p> <p>Onion Skinning</p> <p>Stop Motion</p> <p>Flip Book</p> <p>Easter Egg</p>	<p>Motherboard</p> <p>Graphics Card</p> <p>CPU</p> <p>RAM</p> <p>Network Card</p> <p>Monitor</p> <p>Speakers</p> <p>Keyboard</p> <p>Mouse</p>

## Digital Literacy

- Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.

Formula

Random Tool

Formula Wizard

**Bold**

*Italic*



<u>Year 5</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
<p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>	<p>Action</p> <p>Abstraction</p> <p>Algorithm</p> <p>Decomposition</p> <p>Coordinates</p> <p>Function</p> <p>Timer</p> <p>Variable</p> <p>Simulation</p> <p>Citations</p> <p>Encryptions</p> <p>Reputable</p> <p>Reference</p> <p>Bibliography</p> <p>Brochure</p>	<p>Average</p> <p>Equals Tools</p> <p>Branching</p> <p>Database</p> <p>Binary Tree</p> <p>Statistics and Reports</p> <p>Computer Game</p> <p>Screenshot</p> <p>CAD</p> <p>Modelling</p> <p>3D Printing</p> <p>Concept Map</p> <p>Audience</p>	<p>Cursor</p> <p>Font</p> <p>In-built Styles</p> <p>Text Formatting</p> <p>Text Wrap</p> <p>Word Art</p> <p>Word Processing Tool</p> <p>Merge Cells</p>

## Digital Literacy

- Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.



<u>Year 6</u> <u>Essential Knowledge / End Points</u>	<u>Key Vocabulary</u>		
<p><b>Computer Science</b></p> <ul style="list-style-type: none"> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>	<p>Developer</p> <p>Get Input</p> <p>Launch Command</p> <p>Number Variable</p> <p>Predict</p> <p>Procedure</p> <p>Run</p> <p>String</p> <p>Selection</p> <p>Tab</p> <p>User Input</p> <p>Screen Time</p>	<p>Blog Post</p> <p>Collaboration</p> <p>Text-based Adventure</p> <p>Debug</p> <p>Network</p> <p>Router</p> <p>Network Cables</p> <p>WAN</p> <p>LAN</p> <p>Wireless</p>	<p>BIT</p> <p>BYTE</p> <p>Kilobyte</p> <p>Machine Code</p> <p>Gigabyte</p> <p>Transistor</p> <p>Terabyte</p> <p>Nibble</p> <p>Alignment</p> <p>Range</p> <p>Cell Reference</p> <p>Workbook</p> <p>Average Function</p>

## Digital Literacy

- Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.

