



## William Leech CofE Primary

### Computing End Points

At the end of each year our pupils will be able to:

	<p><b>By the end of EYFS we would like our children to:</b></p> <ul style="list-style-type: none"> <li>● Know that information can be found on the internet using technology.</li> <li>● Know that we can use technology to communicate with others.</li> <li>● Be aware of and be able to talk about the importance of online safety.</li> <li>● Understand what online and not online means.</li> <li>● Be able to program a simple programmable toy e.g beebot.</li> <li>● Have had experience of simple programs e.g Mini Mash To paint a picture and Simple City</li> <li>● Be able to take a photo on an ipad.</li> <li>● Use cause and effect toys using buttons and switches.</li> </ul>
<p>Year 1-3 Year A</p>	<p><b>Online Safety &amp; Exploring Purple Mash Unit</b> <b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>● Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul> <p><b>Grouping and Sorting Unit / Pictograms Unit / Animated Story Books Unit / Coding Unit / Spreadsheets Unit</b></p> <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>Lego Builders Unit</b> <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> </ul> <p><b>Maze Explorers Unit / Coding Unit</b> <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>Technology outside school Unit</b> <b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>● Recognise common use of information technology beyond school.</li> </ul>



Year 1-3 Year B	<p><b>Coding Unit</b></p> <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>Online safety Unit</b></p> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"><li>• Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li></ul> <p><b>Spreadsheets Unit / Questioning Unit / Creating Pictures Unit / Making music Unit</b></p> <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 use of information technology beyond school.</li></ul>
Year 1-3 Year C	<p><b>Coding Unit</b></p> <p><b>Computer Science</b></p> <ul style="list-style-type: none"><li>• Design, write and 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></ul> <p><b>Online Safety Unit / Email Unit</b></p> <p><b>Digital Literacy</b></p>



	<ul style="list-style-type: none"> <li>● Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul> <p><b>Email Unit</b> <b>Computer Science</b></p> <ul style="list-style-type: none"> <li>● Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul> <p><b>Spreadsheets Unit Effective searching Unit / Presenting ideas Unit / Email Unit / Branching Databases Unit / Graphing Unit</b></p> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <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> <li>●</li> </ul> <p><b>Effective searching Unit</b></p> <ul style="list-style-type: none"> <li>●</li> </ul>
<p>Year 4-6 Year A</p>	<p><b>Coding Unit/ Logo Unit</b> <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> </ul> <p><b>Online Safety Unit / Effective Searching / Hardware Investigators</b> <b>Computer Science</b></p> <ul style="list-style-type: none"> <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>Effective Searching</b> <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> </ul> <p><b>Coding / Spreadsheets/ Writing for Different Audiences / Animation / Touch Typing Unit / Simulations</b> <b>Information Technology</b></p> <ul style="list-style-type: none"> <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</li> </ul>



	<p>and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p><b>Online Safety</b> <b>Digital Literacy</b></p> <ul style="list-style-type: none"><li>● Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li></ul>
Year 4 - 6 Year B	<p><b>Coding</b> <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></ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"><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><b>Online Safety</b> <b>Computer Science</b></p> <ul style="list-style-type: none"><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>Digital Literacy</b></p> <ul style="list-style-type: none"><li>● Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li></ul> <p><b>Spreadsheets / Databases / Game Creator / 3D Modelling / Concept Maps</b> <b>Information Technology</b></p> <ul style="list-style-type: none"><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><b>Game Creator</b> <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></ul>



Year 4 – 6 Year C	<p><b>Coding/ Unit 6.5 Text Adventures</b></p> <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></ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"><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><b>Online Safety</b></p> <p><b>Computer Science</b></p> <ul style="list-style-type: none"><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></ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"><li>● Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact*.</li></ul> <p><b>Spreadsheets / Blogging / Quizzing</b></p> <p><b>Information Technology</b></p> <ul style="list-style-type: none"><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><b>Blogging / Networks</b></p> <p><b>Computer Science</b></p> <ul style="list-style-type: none"><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>
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