









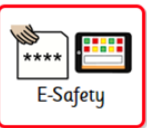












## Computing National Curriculum Overview

	Autumn	Spring	Summer
<b>Reception</b>	Looks closely at similarities, differences, patterns and change. Interacts with age-appropriate computer software. Completes a simple program on a computer. Recognise that a range of technology is used in places such as homes and schools.		
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">             E-Safety         </div> <div style="border: 1px solid red; padding: 5px; text-align: center;">             Computer Science         </div> <div style="border: 1px solid red; padding: 5px; text-align: center;">             I.T. and Digital Literacy         </div> </div>		
<b>Year 1</b>	<b>Keeping Safe and Exploring Technology</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             E-Safety         </div> <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>	<b>Programming Direction</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             Computer Science         </div> <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>	<b>Digital art – 2paint</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             I.T. and Digital Literacy         </div> <ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>recognise common uses of information technology beyond school</li> </ul>
<b>Year 2</b>	<b>Writing In Different Styles</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             I.T. and Digital Literacy         </div> <ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>recognise common uses of information technology beyond school</li> </ul>	<b>An Introduction to Animation</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             Computer Science         </div> <ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>use technology safely and respectfully</li> </ul>	<b>Keep Safe and Create</b> <div style="border: 1px solid red; padding: 5px; text-align: center; margin: 10px 0;">             E-Safety         </div> <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 content or</li> </ul>





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			<p>contact on the internet or other online technologies.</p> <ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>
<b>Year 3</b>	<p>Digital Literacy and Online Safety</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">         I.T. and Digital Literacy     </div> <div style="border: 1px solid red; padding: 5px; text-align: center;">         E-Safety     </div> </div> <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> <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>Communication and Collaboration</p> <div style="border: 1px solid red; padding: 5px; text-align: center;">         I.T. and Digital Literacy     </div> <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>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</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>Real Life Algorithms</p> <div style="border: 1px solid red; padding: 5px; text-align: center;">         Computer Science     </div> <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>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>
<b>Year 4</b>	<p>Digital Literacy and Online Safety</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">         I.T. and Digital Literacy     </div> <div style="border: 1px solid red; padding: 5px; text-align: center;">         E-Safety     </div> </div>	<p>Computational Thinking - Alien Contact!</p> <div style="border: 1px solid red; padding: 5px; text-align: center;">         Computer Science     </div>	<p>Getting started with Kodu</p> <div style="border: 1px solid red; padding: 5px; text-align: center;">         Computer Science     </div>

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	<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> <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>	<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 logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> <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>	<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>
<b>Year 5</b>	<p>Coding – retro games PacMan</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>What is a computer?</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> <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>Digital Literacy and Online Safety</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> <li>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about</li> </ul>

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<b>Year 6</b>	Digital Literacy and Online Safety <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">               I.T. and Digital Literacy           </div> <div style="border: 1px solid red; padding: 5px; text-align: center;">               E-Safety           </div> </div> <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> <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>	Manipulating images <div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">               I.T. and Digital Literacy           </div> </div> <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>	Micro:bit <div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid red; padding: 5px; text-align: center;">               Computer Science           </div> </div> <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>• 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>