

**Curriculum Framework subject - Computing**

	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
<b>Year 1</b>	<b>Learning to be e-safe</b>	<p>Pupils will learn that they may leave a digital footprint when using the internet</p> <p>Pupils will learn ways for staying safe when using the internet</p> <p>Pupils will learn that they can use the computers to discover new ideas and visit new places</p> <p>Pupils will learn how people can use the internet to bully others and where they can go for help</p>	<b>Learning to be creators</b>	<p>Pupils will be able to use a computer to create and develop digital artwork</p> <p>Pupils will be able to use a digital camera to record selected images</p> <p>Pupils will be able to use images they have taken in other software packages</p> <p>Pupils will be able to use a digital video camera to record a class activity</p> <p>Pupils will be able to use ICT to represent information graphically and begin to interpret that data accurately</p>	<b>Learning to be computer scientists</b>	<p>Pupils will be able to give directional <b>instructions</b> that can be understood and followed</p> <p>Pupils will be introduced to the word <b>algorithm</b></p> <p>Pupils will understand the need for accuracy when giving <b>instructions</b></p> <p>Pupils will share and discuss their knowledge of directional <b>instructions</b> with their peers</p> <p>Pupils will begin to create and <b>debug</b> simple programs using directional language</p>

<p><b>Year 2</b></p>	<p><b>Learning to be e-safe</b></p>	<p>Pupils will learn why passwords are important and the reasons for keeping them private</p> <p>Pupils will learn that computers can be used to communicate with people close and far away</p> <p>Pupils will learn that they must use technology safely and respectfully</p>	<p><b>Learning to be creators</b></p>	<p>Pupils will learn that technology can be used to communicate ideas</p> <p>Pupils will recognise common uses of information technology beyond school</p> <p>Pupils will recognise that some forms of communication are better than others</p> <p>Pupils will be able to create, store and retrieve digital content</p>	<p><b>Learning to be computer scientists</b></p>	<p>Pupils will understand what <b>algorithms</b> are</p> <p>Pupils will understand the need for accuracy when giving or following <b>instructions</b></p> <p>Pupils will be able to create and <b>debug</b> simple programs</p> <p>Pupils will be able to <b>predict</b> the behaviour of simple programs and explain their reasoning</p>
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<p><b>Year 3</b></p>	<p><b>Learning to be e-safe</b></p>	<p>Pupils will learn how they can protect themselves online and discuss the information they share with others</p> <p>Pupils will learn where they can go for help and support when they have concerns</p> <p>Pupils will learn that they must use technology safely and respectfully</p>	<p><b>Learning to be creators</b></p>	<p>Pupils will use and combine a variety of software to design and create digital and printed media</p> <p>Pupils will collect and present data accurately</p> <p>Pupils will be able to use search technologies effectively to locate appropriate resources needed for their work</p> <p>Pupils will understand the principles of animation</p>	<p><b>Learning to be computer scientists</b></p>	<p>Pupils will explain how simple <b>algorithms</b> work and will start to spot some errors</p> <p>Pupils will be able to write and <b>debug</b> simple programs that accomplish specific goals</p> <p>Pupils will be able to use <b>repeat</b> procedures in their programs</p> <p>Pupils will understand the need for accuracy when giving or following instructions</p>
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<p><b>Year 4</b></p>	<p><b>Learning to be e-safe</b></p>	<p>Pupils will learn the importance of using and keeping safe their passwords</p> <p>Pupils will understand the term plagiarism Pupils will know what spam is and how to deal with it</p> <p>Pupils will be able to demonstrate the importance of keeping personal information private</p>	<p><b>Learning to be creators</b></p>	<p>Pupils will use and combine a variety of software to design and create digital and printed media</p> <p>Pupils will recognise and use good features of digital presentation</p> <p>Pupils will use technologies effectively and be discerning in evaluating their content</p> <p>Pupils will collect, analyse, evaluate and present data accurately</p> <p>Pupils will be able to make simple edits to a film</p>	<p><b>Learning to be computer scientists</b></p>	<p>Pupils will explain how <b>algorithms</b> work and will be able to detect errors</p> <p>Pupils will be able to write and <b>debug</b> programs that accomplish specific goals</p> <p>Pupils will be able to use <b>sequence, selection</b> and <b>repeat</b> in programs</p> <p>Pupils will be able to write a <b>procedure</b> that instructs the computer to draw a flower</p> <p>Pupils will apply their knowledge of the importance of accuracy when giving instructions</p>
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<p><b>Year 5</b></p>	<p><b>Learning to be e-safe</b></p>	<p>Pupils will learn that they must keep their personal information private when online</p> <p>Pupils learn how to identify secure sites that they can use safely</p> <p>Pupils compare cyberbullying and in-person bullying and learn strategies for coping with it</p> <p>Pupils discuss and identify where to go for help and support when they need it</p>	<p><b>Learning to be creators</b></p>	<p>Pupils will recognise that technology can be used to alter and manipulate images</p> <p>Pupils will use and combine a variety of software to design and create digital and printed media</p> <p>Pupils will explore and create 3D animation</p> <p>Pupils will recognise the benefits of using a spreadsheet to manipulate data</p>	<p><b>Learning to be computer scientists</b></p>	<p>Pupils will be able to write programs that control or simulate physical systems</p> <p>Pupils will begin to solve problems by <b>decomposing</b> them into smaller parts</p> <p>Pupils will apply their knowledge of the importance of accuracy when giving instructions</p> <p>Pupils will understand how input/output devices work</p>
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<p><b>Year 6</b></p>	<p><b>Learning to be e-safe</b></p>	<p>Pupils will become familiar with digital media and associated vocabulary</p> <p>Pupils will understand how others can access their private information online</p> <p>Pupils discuss and identify where to go for help and support when they need it</p>	<p><b>Learning to be creators</b></p>	<p>Pupils will use and combine a variety of software to design and create digital and printed media</p> <p>Pupils will collect, analyse, and present data accurately within a spreadsheet</p> <p>Pupils will understand computer networks including the internet and the services they provide (World Wide Web)</p> <p>Pupils will recognise how these services offer opportunities for communication and collaboration Pupils will use search engines effectively in research</p>	<p><b>Learning to be computer scientists</b></p>	<p>Pupils will be able to write and <b>debug</b> programs that accomplish specific goals</p> <p>Pupils will be able to solve problems by <b>decomposing</b> them into smaller parts</p> <p>Pupils will be able to use <b>logical reasoning</b> to explain how simple <b>algorithms</b> work and to detect and correct errors</p> <p>Pupils will apply their knowledge of the importance of accuracy when giving instructions</p>
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