



## Computing Skills and Knowledge Progression

National Curriculum subject content	EYFS	Year 1	Year 2
<b>E-Safety</b> <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>	<ul style="list-style-type: none"> <li>I can recognise online or offline that anyone can say 'no or please stop' to somebody who makes them feel sad, uncomfortable, embarrassed or upset.</li> </ul>	<b>YEAR A – Spring</b> <ul style="list-style-type: none"> <li>I can keep my password private.</li> <li>I can tell you what personal information is. I can tell an adult when I see something unexpected or worrying online.</li> <li>I can talk about why it's important to be kind and polite.</li> <li>I can recognise an age appropriate website.</li> <li>I can agree and follow sensible e-safety rules.</li> </ul>	<b>YEAR A – Spring</b> <ul style="list-style-type: none"> <li>I can explain why I need to keep my password and personal information private.</li> <li>I can describe the things that happen online that I must tell an adult about.</li> <li>I can talk about why I should go online for a short amount of time.</li> <li>I can talk about why it is important to be kind and polite online and in real life.</li> <li>I know that not everyone is who they say they are on the internet.</li> </ul>
<b>Programming</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>	<ul style="list-style-type: none"> <li>Give commands/instructions e.g. forward, backwards, go, stop, when using simple software/hardware Make choices about the buttons/icons to press, touch or click on when using simple software/hardware.</li> </ul>	<b>YEAR B – Summer</b> <ul style="list-style-type: none"> <li>I can give instructions to my friend and follow their instructions to move around.</li> <li>I can describe what happens when I press buttons on a robot.</li> <li>I can press the buttons in the correct order to make my robot do what I want.</li> <li>I can describe what actions I will need to do to make something happen and begin to use the word 'algorithm'.</li> <li>I can begin to predict what will happen for a short sequence of instructions.</li> <li>I can begin to use software/apps to create movement and patterns on a screen.</li> <li>I can use the word 'debug' when I correct mistakes when I Program.</li> </ul>	<b>YEAR B – Summer</b> <ul style="list-style-type: none"> <li>I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions.</li> <li>I can tell you the order I need to do things to make something happen and talk about this as an algorithm.</li> <li>I can program a robot or software to do a particular task.</li> <li>I can look at my friend's program and tell you what will happen.</li> <li>I can watch a program execute and spot where it goes wrong so that I can debug it.</li> </ul>
<b>Handling Data</b> <ul style="list-style-type: none"> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital</li> </ul>	<ul style="list-style-type: none"> <li>Experience simple apps and software and use these to present ideas.</li> </ul>	<b>YEAR A – Autumn YEAR B – Spring</b> <ul style="list-style-type: none"> <li>I can talk about the different ways in which information can be shown.</li> <li>I can use technology to collect information, including photos, video and sound.</li> </ul>	<b>YEAR A – Autumn YEAR B – Spring</b> <ul style="list-style-type: none"> <li>I can talk about the different ways I use technology to collect information, including a camera or sound recorder.</li> <li>I can make and save a chart or graph using the</li> </ul>

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love of learning . . . love of life . . . love of one another . . .



content.		<ul style="list-style-type: none"> <li>I can sort different kinds of information and present it to others.</li> </ul>	<p>data I collect.</p> <ul style="list-style-type: none"> <li>I can talk about the data that is shown in my chart or graph.</li> <li>I am starting to understand a branching database.</li> <li>I can tell you what kind of information I could use to help me investigate a question.</li> </ul>
<b>Multimedia</b> <ul style="list-style-type: none"> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>	<ul style="list-style-type: none"> <li>Manage a device by correctly closing websites or apps and safely turning on and off.</li> </ul>	<b>YEAR B – Autumn</b> <ul style="list-style-type: none"> <li>I can be creative with different technology tools.</li> <li>I can use technology to create and present my ideas.</li> <li>I can use the keyboard or a word bank on my device to enter text.</li> <li>I can save information in a special place and retrieve it again</li> </ul>	<b>YEAR B – Autumn</b> <ul style="list-style-type: none"> <li>I can use technology to organise and present my ideas in different ways.</li> <li>I can use the keyboard on my device to add, delete and space text for others to read.</li> <li>I can tell you about an online tool that will help me to share my ideas with other people.</li> <li>I can save and open files on the device I use.</li> </ul>
<b>Technology in our lives</b> <ul style="list-style-type: none"> <li>Recognise common uses of information technology beyond school.</li> </ul>	<p>Recognise technology that is used at home and in school. Understand what a computer is and the different uses of computers i.e. learning, communicating, finding information, playing games etc.</p>	<b>YEAR A – Summer</b> <ul style="list-style-type: none"> <li>I can recognise the way we use technology in our classroom.</li> <li>I can recognise ways that technology is used in my home and community.</li> <li>I can use links to websites to find information.</li> <li>I can begin to identify some of the benefits of using technology</li> </ul>	<b>YEAR A – Summer</b> <ul style="list-style-type: none"> <li>I can tell you why I use technology in the classroom.</li> <li>I can tell you why I use technology in my home and community.</li> <li>I am starting to understand that other people have created the information I use.</li> <li>I can identify benefits of using technology including finding information, creating and communicating.</li> <li>I can talk about the differences between the internet and things in the physical world.</li> </ul>

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