

# Year 1 Computing Overview

Green = Computer Science    Blue = Information technology

Orange = Digital literacy & e-safety

		Unit of work	Software & hardware	Progression milestones/I can statements
Year 1	Autumn 1	<p><b>E-safety ( 1 Lesson) Staying safe online</b></p> <ul style="list-style-type: none"> <li>• What is personal information?</li> <li>• Understand the Importance of keeping personal information private.</li> <li>• Who can we tell when concerned about content or being contacted?</li> </ul>	<p>Microsoft Word</p> <p>Google chrome</p>	<p>To communicate safely and respectfully online and offline.</p> <p>To write friendly, positive comments on a website or school blog.</p> <p>To only make friends with people you know and trust.</p> <p>To understand it can be difficult to tell if someone is telling the truth about who they really are online.</p> <p>To discuss, with a trusted adult, which personal information is appropriate to share online, including personal details and images.</p> <p>To log onto a computer using a username and password.</p> <p>To close down a program and log off.</p> <p>To retrieve saved work.</p> <p>To open a program from the Start Menu or the Favourites bar.</p>
		<p><b>Using a Word Processor (6 lessons)</b></p> <ul style="list-style-type: none"> <li>- General keys - Enter/return, space bar, backspace, Caps Lock.</li> <li>- Create a word document, changing font style, size and colour.</li> <li>- Learn how to save a document and what saving a document means.</li> <li>- Learn how to print a document.</li> <li>-</li> </ul>		

	<b>Autumn 2</b>	<p><b>E-safety (1 Lesson) Learning how to stay safe online.</b>  <b>Smartie the penguin</b></p> <ul style="list-style-type: none"> <li>• What should we do if something goes wrong when using technology?</li> <li>• Who can we tell?</li> </ul> <p><b>Algorithms (5 lessons)</b></p> <ul style="list-style-type: none"> <li>- Learning about directional language.</li> <li>- Learning what a command is and creating algorithms for different app character to reach different destinations.</li> <li>- Unplugged activities – creating an algorithm to guide children to mascots. Creating algorithms for your teacher to make a glass of squash and a jam sandwich.</li> </ul>	<p>Google chrome  IPads – Daisy the Dinosaur app</p>	<p>To know who to tell and what to do if you see something upsetting on the Internet.</p> <p>To discuss, with a trusted adult, which personal information is appropriate to share online, including personal details and images.</p> <p>To follow and give simple sets of instructions</p> <p>To understand that computer programs follow precise and unambiguous instructions.</p> <p>To understand that an "algorithm" is a list of instructions</p> <p>To predict what a simple program is going to do.</p> <p>To understand that if a program does not do as you want it to, there is a problem with your instructions.</p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Spring 1</b></p>	<p><b>E-safety ( 1 Lesson) Staying safe online</b></p> <ul style="list-style-type: none"> <li>• What is personal information?</li> <li>• Understand the Importance of keeping personal information private.</li> <li>• Who can we tell when concerned about content or being contacted?</li> </ul> <p><b>Presenting Information</b> Making Powerpoint presentations about QE1 and QV.</p> <ul style="list-style-type: none"> <li>- Typing a title/creating a title page</li> <li>- Adding pictures with captions</li> <li>- Presenting to the class.</li> </ul>	<p>Powerpoint</p> <p>Google chrome</p> <p>W Drive on server</p>	<p>To communicate safely and respectfully online and offline.</p> <p>To write friendly, positive comments on a website or school blog.</p> <p>To only make friends with people you know and trust.</p> <p>To understand it can be difficult to tell if someone is telling the truth about who they really are online.</p> <p>To discuss, with a trusted adult, which personal information is appropriate to share online, including personal details and images.</p> <p>To understand that some things on the internet are not true.</p> <p>To log onto a computer using a username and password.</p> <p>To close down a program and log off.</p> <p>To retrieve saved work.</p> <p>To open a program from the Start Menu or the Favourites bar.</p> <p>To use different software and apps to present work</p> <p>To add text to images or sounds in a presentation</p> <p>To understand some of the different ways that digital technology is used at home, school and the world of work.</p>
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Year 1	Spring 2	<p><b>Algorithms</b></p> <ul style="list-style-type: none"> <li>- Recapping what a command is and creating algorithms.</li> <li>- Learning about the different devices that need algorithms (programs) to function.</li> <li>- Learning that algorithms are programs but in human language.</li> <li>- Learning about de-bugging.</li> <li>- Unplugged activities – sandwich making</li> </ul>	<p>Google chrome Bee Bot app.</p>	<p>To follow and give simple sets of instructions</p> <p>To understand that computer programs follow precise and unambiguous instructions.</p> <p>To understand that an "algorithm" is a list of instructions</p> <p>To predict what a simple program is going to do.</p> <p>To understand that if a program does not do as you want it to, there is a problem with your instructions.</p> <p>To write a program on a digital device.</p>
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# Summer 1

## Algorithms

- Learning about the different devices that need algorithms (programs) to function.
- Learning that algorithms are programs but in human language.
- Learning about de-bugging.
- planning a route for the BeeBot, measuring the distance of '1 move' and creating an algorithm for the Bee Bot.

## E-safety ( 1 Lesson)Strangers online

- Why do we need to be careful when talking to strangers online?
- Is everyone who they say they are? How can we tell?
- Who can we tell when concerned about content or being contacted?

## Bee Bots

- To follow and give simple sets of instructions
- To understand that computer programs follow precise and unambiguous instructions.
- To understand that an "algorithm" is a list of instructions
- To predict what a simple program is going to do.
- To understand that if a program does not do as you want it to, there is a problem with your instructions.
- To write a program on a digital device.

- To communicate safely and respectfully online and offline.
- To write friendly, positive comments on a website or school blog.
- To only make friends with people you know and trust.
- To understand it can be difficult to tell if someone is telling the truth about who they really are online.
- To discuss, with a trusted adult, which personal information is appropriate to share online, including personal details and images.
- To understand that some things on the internet are not true.

	<b>Summer 2</b>	<p><b>Presenting information</b></p> <p>Using book creator to create a presentation about Year 1 at Barnes.</p> <p>Multimedia – Text, photos, Morpho, video clips.</p>	<p>Book creator</p> <p>Morpho</p>	<p>To use different software and apps to present work</p> <p>To add text to images or sounds in a presentation</p> <p>To retrieve saved work.</p>
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