

## Key Stage 2 Computing Scheme of Work

KS2 NC objectives:

- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts.
- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- 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.
- Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.
- 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.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

### YEAR 3

Computer Science	<ul style="list-style-type: none"><li>- Kodable</li><li>- A.L.E.X</li><li>- Scratch</li></ul>	<p>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts.</p> <p>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>
Digital Literacy (Creating Documents)	<ul style="list-style-type: none"><li>- Microsoft Word</li><li>- Microsoft PPT</li> <li>- Book Creator app on iPad.</li></ul>	<p>I can 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</p>

		given goals, including collecting, analysing, evaluating and presenting data and information.
Digital Literacy (Computer Safety)	<a href="#">Powerful passwords</a> <a href="#">My online community</a> <a href="#">Things for sale</a> <a href="#">Show respect online</a> <a href="#">Writing good emails</a>	I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
Information Technology	<p>Logging on</p> <p>Saving work</p> <p>Navigate a computer</p> <p>Using search engines effectively and evaluating the content.</p>	<p>I can 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.</p> <p>I can use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>I can 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</p>

	Reporting concerns when using online search engines and websites.	given goals, including collecting, analysing, evaluating and presenting data and information.
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Please ensure that computers/iPads are used to support your learning in the classroom where possible.

REMEMBER - Book in blank slots for the computer suite when you wish to use them. These will be cleared at 12:15 each Friday to sign up for slots for the coming week.

#### YEAR 4

Computer Science	<ul style="list-style-type: none"> <li>- Scratch</li> <li>- A.L.E.X</li> <li>- Hopscotch</li> </ul>	<p>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts.</p> <p>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>
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<p>Digital Literacy (Creating Documents)</p>	<ul style="list-style-type: none"> <li>- Microsoft Word</li> <li>- Microsoft PPT</li>   <li>- Book Creator app on iPad.</li> </ul>	<p>I can 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.</p>
<p>Digital Literacy (Computer Safety)</p>	<p><a href="#">Ring of responsibility</a></p> <p><a href="#">Private and personal Information</a></p> <p><a href="#">The power of words</a></p> <p><a href="#">The key to keywords</a></p> <p><a href="#">Whose is it anyway?</a></p> <p>Begin to discuss social media</p>	<p>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>
<p>Information Technology</p>	<p>Logging on</p> <p>Saving work</p>	<p>I can understand computer networks including the internet; how they can provide multiple services,</p>



## YEAR 5

Computer Science	<ul style="list-style-type: none"><li>- Alice</li><li>- Scratch (see CAS Barefoot for ideas)</li><li>- Hopscotch app on iPad.</li></ul>	<p>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts.</p> <p>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>
Digital Literacy (Creating Documents)	<ul style="list-style-type: none"><li>- Microsoft Word</li><li>- Microsoft PPT</li><li>- Microsoft Publisher</li></ul>	<p>I can 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.</p>
Digital Literacy (Computer Safety)	<p><a href="#">Strong passwords</a></p> <p><a href="#">Digital citizenship pledge</a></p>	<p>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable</p>

	<p><a href="#">You've won a prize</a></p> <p><a href="#">How to cite a site</a></p> <p><a href="#">Picture perfect</a></p> <p>Discuss the effects of social media</p>	<p>behaviour; identify a range of ways to report concerns about content and contact.</p>
<p>Information Technology</p>	<p>Logging on</p> <p>Saving work</p> <p>Navigate a computer</p> <p>Using search engines effectively and evaluating the content.</p> <p>Reporting concerns when using online search engines and websites.</p>	<p>I can 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.</p> <p>I can use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>I can 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.</p>

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**YEAR 6**

<p>Computer Science</p>	<ul style="list-style-type: none"> <li>- Alice</li> <li>- Audacity</li> <li>- Hopscotch app on iPad.</li> </ul>	<p>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems: solve problems by decomposing them into smaller parts.</p> <p>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>
<p>Digital Literacy (Creating Documents)</p>	<ul style="list-style-type: none"> <li>- Microsoft Word</li> <li>- Microsoft PPT</li> <li>- Microsoft Publisher</li> <li>- Excel</li> </ul>	<p>I can 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,</p>

		systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
Digital Literacy (Computer Safety)	<a href="#">Talking safely online</a> <a href="#">Super digital citizen</a> <a href="#">Privacy rules</a> <a href="#">What's cyberbullying?</a> <a href="#">Selling stereotypes</a> <p>Discuss the effects of social media and how to use it safely and appropriately.</p>	I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
Information Technology	<p>Logging on</p> <p>Saving work</p> <p>Navigate a computer</p>	<p>I can 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.</p> <p>I can use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>I can select, use and combine a variety of software (including internet services) on a range of digital</p>

	<p>Using search engines effectively and evaluating the content.</p> <p>Reporting concerns when using online search engines and websites.</p>	<p>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.</p>
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