

# Mapping to National Curriculum

## BBC Bitesize

### Lower KS2

#### Computer Science

Pupils should be taught:	Scheme Of Work	BBC Bitesize Links
		<a href="#">What is computer science?</a>
<b>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</b>	<p><b>Can your robot make shapes? (year 3)</b></p> <p><b>Creating a Kodu (year 3)</b></p> <p><b>I can make my own game (year 3)</b></p> <p><b>I can use block coding (year 3)</b></p> <p><b>Logo turtle mania (year 4)</b></p> <p><b>Apple hunt (year 4)</b></p> <p><b>Creating a game using 2DIY (year 4)</b></p> <p><b>I can create a game using j2code (year 4)</b></p> <p><b>Creating a Kodu game (year 4)</b></p> <p><b>I can make an animation (year 3 and 4 – 3 lessons)</b></p> <p><b>Dancing with Scratch (Year 4)</b></p> <p><b>Creating a Game in 2DIY (Year 4)</b></p>	<p><a href="#">How do we get computers to do what we want?</a></p> <p><a href="#">What is debugging?</a></p> <p><a href="#">Control physical systems</a></p> <p><a href="#">What are input and output devices?</a></p> <p><a href="#">What makes a good computer game?</a></p>
<b>Use sequence, selection, and repetition in programs; work</b>	<p><b>Creating a Kodu (year 3)</b></p>	<p><a href="#">What is decomposition?</a></p>

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<p><b>with variables and various forms of input and output</b></p>	<p>I can use block coding (year 3)</p> <p>Creating a game using 2DIY (year 4)</p> <p>I can create a game using j2code (year 4)</p> <p>Logo turtle mania (year 4)</p> <p>I can edit and record sounds (year 4)</p> <p>Creating a Kodu game (year 4)</p> <p>Dancing with Scratch (Year 4)</p> <p>Creating a Game in 2DIY (Year 4)</p>	<p><a href="#">How do computer programs use variables?</a></p>
<p><b>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</b></p>	<p>Can your robot make shapes? (year 3)</p> <p>Creating a Kodu (year 3)</p> <p>How does that work? (year 3)</p> <p>I can use block coding (year3)</p> <p>Creating a game using 2DIY (year 4)</p> <p>I can create a game using j2code (year 4)</p> <p>Logo turtle mania (year 4)</p> <p>Creating a Kodu game (year 4)</p> <p>Dancing with Scratch (Year 4)</p>	<p><a href="#">What is an algorithm?</a></p>

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	Creating a Game in 2DIY (Year 4)	
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>Words, words, words. (year 3)</p> <p>Journey of an email (year 3)</p> <p>Let's e mail (using 2 email) (year 3)</p> <p>Let's e mail (using 2 email in Purple Mash) (year 3)</p> <p>Words, words, words (year 4)</p> <p>Let's email (year 4)</p> <p>Lets collaborate via email (year 4)</p> <p>Would you like to read this? (year 3 and 4)</p>	<p><a href="#">How does the internet work?</a></p> <p><a href="#">What is the world wide web?</a></p>
Use search technologies effectively, appreciate how results are selected and ranked	<p>Internet search and presentation (year 4)</p> <p>My exciting world landmarks (Years 4)</p> <p>Searching the web (year 4)</p> <p>Here's my presentation (year 4)</p>	<p><a href="#">How do search engines work?</a></p>
Beyond scope of KS2		
Understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and		<p><a href="#">What is digital data?</a></p>

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manipulated digitally, in the form of binary digits		
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Digital Literacy		
Pupils should be taught:	Scheme Of Work	BBC Bitesize Links
Understand the opportunities [networks] offer for communication and collaboration	<p>Let's e mail using 2 email (year 3)</p> <p>Lets collaborate via email (year 4)</p>	<p><a href="#">Different ways to communicate online</a></p>
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	<p>Would I lie to you? (year 3)</p> <p>Internet search and presentation (year 4)</p> <p>My exciting world landmarks (year 4)</p> <p>Here's my presentation (year 4)</p>	<p><a href="#">What are viruses and malware?</a></p> <p><a href="#">Should I trust everything I read on the web?</a></p>
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	<p>Journey of an email (year 3)</p> <p>Would I lie to you? (year 3)</p> <p>I can make my own game (year 3)</p> <p>Do you like my presentation? (year 3)</p>	

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	<p>Do you like my presentation about Ada Lovelace (year 3)</p> <p>Internet scenario card (year 3)</p> <p>Let's e mail (using 2 email) (year 3)</p> <p>Let's e mail (using 2 email in Purple Mash) (year 3)</p> <p>Safe searching with Dongle (year 3)</p> <p>Apple hunt (year 4)</p> <p>Internet search and presentation (year 4)</p> <p>Sharing my view (year 4)</p> <p>Internet scenario card (year 4)</p> <p>Let's e mail (year 4)</p> <p>Lets collaborate via email (year 4)</p> <p>My exciting world landmarks (Year 4)</p> <p>Play like share (year 4)</p> <p>Here's my presentation (year 4)</p>	
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Information Technology		
Pupils should be taught:	Scheme Of Work	BBC Bitesize Links
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>See and hear my mix! (year 3)</p> <p>Safe searching with Dongle (year 3)</p> <p>Do you like my presentation? (year 3)</p> <p>Do you like my presentation - Ada Lovelace (year 3)</p> <p>Finding out about me (year 3)</p> <p>Creating a Tessellation (year 3)</p> <p>I'm a composer (year 3)</p> <p>I can edit and record sounds (year 4)</p> <p>Internet search and presentation (year 4)</p> <p>Sharing my view (year 4)</p> <p>What's a spreadsheet (year 4)</p> <p>Weather data (year 4)</p> <p>I can make an animation (year 3 and 4)</p> <p>My exciting world landmarks (years 4)</p> <p>Creating an alien landscape (year 4)</p> <p>Would you like to read this? (year 3 and 4)</p>	<p><a href="#">What is a database?</a></p> <p><a href="#">How to create digital video and audio?</a></p> <p><a href="#">Creating and understanding charts</a></p> <p><a href="#">How do digital images work?</a></p> <p><a href="#">Dance Mat Typing</a></p> <p><a href="#">What makes a good webpage?</a></p> <p><a href="#">How do you make a <i>good</i> app?</a></p>

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	Here's my presentation (year 4)	
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