

Computing Curriculum Overview

Year 3

Term	Computing Topic	Knowledge and understanding	What I will know and remember	Vocabulary
<p>Online Safety KS2: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>				
1	<p>Unit 3.1 - Computing systems and networks - Connecting computers</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 explain how digital devices function I can identify input and output devices I can recognise how digital devices can change the way we work I can explain how a computer network can be used to share information I can explore how digital devices can be connected I can recognise the physical components of a network</p>	<p>Connection Digital device Input Network Network switch Output Process Secure Server Wireless access point (WAP)</p>
<p>Online Safety: Self Image and Identity (Education For A Connected World)</p>				
<p style="text-align: center;"><u>End of unit assessment</u></p> <p style="text-align: center;"><u>Working at</u></p> <p><u>Working towards</u> <u>Working above</u></p>				

2	Unit 3.5 - Programming A - Sequence in music	<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>I can explore a new programming environment</p> <p>I can identify that each sprite is controlled by the commands I choose</p> <p>I can explain that a program has a start</p> <p>I can recognise that a sequence of commands can have an order</p> <p>I can change the appearance of my project</p> <p>I can create a project from a task description</p>	<p>Backdrop</p> <p>Blocks</p> <p>Bug</p> <p>Code</p> <p>Glide</p> <p>Motion</p> <p>Programming</p> <p>Scratch</p> <p>Sequence</p>
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Online Safety: Online Relationships
(Education For A Connected World)

<p><u>End of unit assessment</u></p>				
<u>Working towards</u>	<u>Working at</u>		<u>Working above</u>	

3	Unit 3.4 - Data and Information - Branching Databases	<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</p>	<p>I can understand the terminology around databases</p> <p>I can compare paper and computerised databases</p> <p>I can sort, filter and interpret data</p> <p>I can represent data in different ways</p> <p>I can sort data for a purpose</p>	<p>Advantages</p> <p>Benefits</p> <p>Communicate</p> <p>Desktop publishing</p>
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		accomplish given goals, including collecting, analysing, evaluating and presenting data and information.		Disadvantages Font/font style Landscape Layout Placeholder Portrait Orientation Template
Online Safety: Online Reputation & Online Bullying (Education For A Connected World)				
<u>End of unit assessment</u>				
<u>Working towards</u>		<u>Working at</u>		<u>Working above</u>
4	Unit 3.2 - Creating media - Animation	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	I can explain that animation is a sequence of drawings or photographs I can relate animated movement with a sequence of images I can plan an animation I can identify the need to work consistently and carefully I can evaluate the impact of adding other media to an animation	Animation Consistency Evaluation Flip book Frame Import Onion skinning Media Transition

Online Safety: Managing Online Information
(Education For A Connected World)

		<u>End of unit assessment</u>		
<u>Working towards</u>		<u>Working at</u>		<u>Working above</u>

5	<p>Unit 3.6 - Programming B - Events and actions</p>	<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>I can break an open-ended problem up into smaller parts.</p> <p>I can put programming commands into a sequence to achieve a specific outcome.</p> <p>I keep testing my program and can recognise when I need to debug it.</p> <p>I can use repeat commands.</p> <p>I can describe the algorithm I will need for a simple task.</p> <p>I can detect a problem in an algorithm which could result in unsuccessful programming.</p>	<p>Backdrop</p> <p>Blocks</p> <p>Code</p> <p>Glide</p> <p>Loop</p> <p>Scratch</p> <p>Sequence</p>
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Online Safety: Health, Wellbeing and Lifestyle
(Education For A Connected World)

<u>Working towards</u>		<u>End of unit assessment</u>		<u>Working above</u>
		<u>Working at</u>		
6	Unit 3.3 Creating media - Desktop publishing	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	I can recognise how text and images convey information I can recognise that text and layout can be edited I can choose appropriate page settings I can add content to a desktop publishing publication I can consider how different layouts can suit different purposes I can consider the benefits of desktop publishing	Database Data logger Data types Field Information Questioning Record/Recording
Online Safety: Privacy and Security & Copyright and Ownership (Education For A Connected World)				
<u>Working towards</u>		<u>End of unit assessment</u>		<u>Working above</u>
		<u>Working at</u>		