



Wilbury Computing Overview- Composite Knowledge

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
<p>EYFS</p> <p>Do you have strategies for solving problems? Can you create a sequence? Can you use directional language? Do you know computers are machines that come in many different forms? Can you use a computer to perform a simple task? Do you know we can find information using computers? Can you find places on Google Maps?</p>						
<p>Year 1</p> <p>Introducing Algorithms Computer Science Computers are machines that follow instructions. We write these instructions as algorithms.</p>	<p>Personal information and iPads Digital Literacy – inc. online safety How to stay safe when online and know who to ask for help</p>	<p>Beebot Algorithms Computer Science Write, test and debug algorithms for digital devices</p>	<p>Logging On Digital Literacy – inc. online safety Use a username and password to logon to a computer, navigate the web and create digital artefacts</p>	<p>Digital Storybook Digital Literacy – inc. online safety Use software to create digital artefacts: multimedia story</p>		
<p>Year 2</p> <p>Writing Algorithms Computer Science Write clear and precise algorithms for computers to follow</p>	<p>Animation Digital Literacy – inc. online safety Use software to create digital artefacts: create animations</p>	<p>Programming Probots Computer Science Write, test and debug algorithms for digital devices</p>	<p>Navigating the Web and Staying Safe online Digital Literacy – inc. online safety Use computers to navigate the World Wide Web and find information</p>	<p>Beginning Desktop Publishing Digital Literacy – inc. online safety Use software to create digital artefacts: typing</p>		

Year 3	<p><u>Typing and Online Safety</u> Digital Literacy – inc. online safety Use computers confidently and safely and know what to do if concerned</p>	<p><u>Multimedia Presentations</u> Digital Literacy – inc. online safety Use a web based software and be able to save and retrieve work between lessons</p>	<p><u>What's Inside Your Computer</u> Computers, Networks and the WWW Identify the main computer components and their role</p>	<p><u>Input and Output Computer Science</u> Identify input and outputs and write simple programs to interact with them</p>	<p><u>Build a Digital Music Device</u> Computer Science Design, build, program and test a digital musical instrument.</p>	<p><u>Programming Sequence</u> Computer Science Write, test and debug programs using sequences and repetition</p>
Year 4	<p><u>Build Your Own Computer</u> Computers, Networks and the WWW Know the role of each part of a computer and the vital role of the operating system</p>	<p><u>Introducing Networks</u> Computers, Networks and the WWW Recognise that computer networks are made by joining computers together</p>	<p><u>Events, Actions and Sequences</u> Computer Science Write, test and debug programs using events, sequences and repeat loops</p>	<p><u>Events, Actions and Sequences</u> Computer Science Write, test and debug programs using events, complex sequences and repeat loops</p>	<p><u>Being Safe Online</u> Digital Literacy – inc. online safety Recognise the importance of staying safe when communicating online</p>	<p><u>Video Editing</u> Digital Literacy – inc. online safety Plan, Record and edit digital video for a purpose</p>
Year 5	<p><u>Introducing Selection and the Micro:bit</u> Computer Science Write, test and debug programs that use selection</p>	<p><u>Introducing Selection and the Micro:bit</u> Computer Science Write, test and debug programs that use selection</p>	<p><u>What is the internet</u> Computers, Networks and the WWW The internet is a network of connected Networks and the different ways we can connect to it</p>	<p><u>Variables in Programs</u> Computer Science Write, test and debug programs that make use of variables</p>	<p><u>The World Wide Web</u> Computers, Networks and the WWW Investigate how the WWW works and how search engines find and rank the information available.</p>	

Year 6	<p>3D Modelling Digital Literacy – inc. online safety Use software and recognise how technology is used in the world around us</p>	<p>What is AI Digital Literacy – inc. online safety Recognise what AI is and how it is used in the world around us</p>	<p>Selection: If ... Else ... Computer Science Write, test and debug programs that use more complex selection</p>	<p>Photo editing Digital Literacy – inc. online safety Use software and recognise the impact digital technology has on our emotions</p>		
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