

# Computing Curriculum Overview

# Year 2

Term	Computing Topic	Knowledge and understanding	What I will know and remember	Vocabulary
<b>Online Safety KS1:</b> Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.				
1	<b>Unit 2.1 - Computing systems and networks - Information technology around us</b>	To can recognise common uses of information technology beyond school	I can identify information technology in the home I can identify information technology beyond school I can explain how information technology benefits us I can explain how information technology benefits us I can show how to use information technology safely I can recognise that choices are made when using information technology	Bar code Computer Device Information technology
<b>Online Safety:</b> Self Image and Identity (Education For A Connected World)				
<b><u>Working towards</u></b> <span style="margin-left: 200px;"><b><u>End of unit assessment</u></b></span> <span style="margin-left: 200px;"><b><u>Working at</u></b></span> <span style="margin-left: 200px;"><b><u>Working above</u></b></span>				

2	<b>Unit 2.5 - Programming A, Robot Algorithms</b>	<p>To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p> <p>To create and debug simple programs.</p> <p>To use logical reasoning to predict the behaviour of simple programs.</p>	<p>I can describe a series of instructions as a sequence</p> <p>I can explain what happens when we change the order of instructions</p> <p>I can use logical reasoning to predict the outcome of a program (series of commands)</p> <p>I can explain that programming projects can have code and artwork</p> <p>I can design an algorithm.</p> <p>I can create and debug a program that I have written.</p>	<p>Algorithm</p> <p>Command</p> <p>Debug</p> <p>Predict</p> <p>Sequence</p>
<p><b>Online Safety:</b> Online Relationships (Education For A Connected World)</p>				
<p><b>End of unit assessment</b></p> <p><u>Working towards</u>                      <u>Working at</u>                      <u>Working above</u></p>				
3	<b>Unit 2.4 - Data and information - Pictograms</b>	<p>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p>I can recognise that we can count and compare objects using tally charts</p> <p>I can recognise that objects can be represented as pictures</p> <p>I can create a pictogram</p> <p>I can select objects by attribute and make comparisons</p> <p>I can recognise that people can be described by attributes</p>	<p>Attributes</p> <p>Compare</p> <p>Data</p> <p>Pictogram</p> <p>Tally chart</p>

			I can explain that we can present information using a computer.	
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**Online Safety:** Online Reputation & Online Bullying  
(Education For A Connected World)

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

<b>4</b>	<b>Unit 2.2 - Creating media - Digital photography</b>	To use technology purposefully to create, organise, store, manipulate and retrieve digital content.	I can use a digital device to take a photograph I can make choices when taking a photograph I can describe what makes a good photograph I can decide how photographs can be improved I can use tools to change an image I can recognise that photos can be changed	Capture Landscape Light Source Photograph Portrait
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**Online Safety:** Managing Online Information  
(Education For A Connected World)

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

5	Unit 2.6 - Programming B, An introduction to quizzes	<p>To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p> <p>To create and debug simple programs. To use logical reasoning to predict the behaviour of simple programs.</p>	<p>I can explain that a sequence of commands has a start I can explain that a sequence of commands has an outcome I can create a program using a given design I can create a program using a given design I can change a given design I can create a program using my own design I can decide how my project can be improved</p>	<p>Algorithm Command Debug Predict Program Sequence</p>
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**Online Safety:** Health, Wellbeing and Lifestyle  
(Education For A Connected World)

<b><u>Working towards</u></b>			<b><u>End of unit assessment</u></b> <b><u>Working at</u></b>	<b><u>Working above</u></b>
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6	Unit 2.3 Creating media - Making music	To use technology purposefully to create, organise, store, manipulate and retrieve digital content	<p>I can say how music can make us feel I can identify that there are patterns in music. I can describe how music can be used in different ways I can show how music is made from a series of notes I can create music for a purpose I can review and refine our computer work</p>	<p>Duration Melody Pattern Pitch Refine Rhythm</p>
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**Online Safety:** Privacy and Security & Copyright and Ownership  
(Education For A Connected World)

Working towards

End of unit assessment

Working at

Working above