

YEAR 4 COMPUTING - SCHEME OF WORK. OBJECTIVES AND OVERVIEW (2022-2023)

TERM 22/23	AUTUMN 1							AUTUMN 2							SPRING 1						SPRING 2						SUMMER 1						SUMMER 2																				
Week	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7														
Number of Lessons	1	2	3	4	5	6	6	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	1	2	3	4	1	2	3	4	5	6	7														
Unit 4.1 Coding Number of Weeks: 6 Program: 2Code Predominate Area of Computing: Computer Science NCOs: 4	Unit 4.2 Online Safety Number of Weeks: 4 Predominate Area of Computing: Digital Literacy NCOs: 2							Unit 4.5 Logo Number of Weeks: 4 Program: 2Logo Predominate Area of Computing: Computer Science NCOs: 3							Unit 4.6 Animation Number of Weeks: 3 Program: 2Animate Predominate Area of Computing: Information Technology NCOs: 1						Unit 4.7 Effective Searching Number of Weeks: 3 Predominate Area of Computing: Information Technology NCOs: 1						Unit 4.9 Making Music Number of Weeks: 4 Program: Busy Beats Predominate Area of Computing: Information Technology NCOs: 1						Unit 4.8 Hardware Investigators Number of Weeks: 2 Predominate Area of Computing: Computer Science NCOs: 1						4.3 Spreadsheets Number of Weeks: 6 Program: 2Calculate Predominate Area of Computing: Information Technology NCOs: 1							Unit 4.4 Writing for Different Audiences Number of Weeks: 5 Predominate Area of Computing: Information Technology NCOs: 1							End of term

National Curriculum Objective: KS2	Stand	Units (that each objective is covered)
Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Computer Science	4.1 Coding 4.5 Logo
Use sequence, selections and repetition in programs; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs.	Computer Science	4.1 Coding 4.5 Logo
Use logical reasoning to explain how a simple algorithm works, detect and correct errors in algorithms and programs.	Computer Science	4.1 Coding 4.5 Logo
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.	Computer Science	4.2 Online Safety 4.7 Effective Searching 4.8 Hardware Investigators
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Information Technology	4.7 Effective Searching
Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Information Technology	4.1 Coding 4.3 Spreadsheets 4.4 Writing for different Audiences 4.6 Animation 4.9 Making Music
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Digital Literacy	4.2 Online Safety *Discussed in other units also.

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Prior Learning and Post Learning Links

<p>Unit 4.1 Coding</p> <p>Number of Weeks: 6 Program: 2Code</p> <p>Predominate Area of Computing: Computer Science</p> <p>NCOs: 4</p>	<p>Unit 4.2 Online Safety</p> <p>Number of Weeks: 4</p> <p>Predominate Area of Computing: Digital Literacy</p> <p>NCOs: 2</p>	<p>Unit 4.5 Logo</p> <p>Number of Weeks: 4 Program: 2Logo</p> <p>Predominate Area of Computing: Computer Science</p> <p>NCOs: 3</p>	<p>Unit 4.6 Animation</p> <p>Number of Weeks: 3 Program: 2Animate</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 4.7 Effective Searching</p> <p>Number of Weeks: 3</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 4.9 Making Music</p> <p>Number of Weeks: 4 Program: Busy Beats</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 4.8 Hardware Investigators</p> <p>Number of Weeks: 2</p> <p>Predominate Area of Computing: Computer Science</p> <p>NCOs: 1</p>	<p>4.3 Spreadsheets</p> <p>Number of Weeks: 6 Program: 2Calculate</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 4.4 Writing for Different Audiences</p> <p>Number of Weeks: 5</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>
<p>Prior Learning Links:</p> <p>Year 3 3.1 Coding 3.6 Branching Databases</p> <p>Post Learning Links: Year 4 4.5 Logo 4.6 Animation</p> <p>Year 5 5.1 Coding</p> <p>Year 6 6.1 Coding 6.5 Text Adventures</p>	<p>Prior Learning Links:</p> <p>Year 3 3.2 Online Safety 3.5 Email</p> <p>Year 4 4.2 Online Safety</p> <p>Post Learning Links: Year 4 4.7 Effective Searching</p> <p>Year 5 5.2 Online Safety 5.8 Word Processing</p> <p>Year 6 6.2 Online Safety 6.4 Blogging</p>	<p>Prior Learning Links:</p> <p>Year 3 3.1 Coding 3.6 Branching Databases</p> <p>Year 4 4.1 Coding</p> <p>Post Learning Links:</p> <p>Year 5 5.1 Coding 5.5 Game Creator 5.6 3D Modelling</p> <p>Year 6 6.1 Coding 6.5 Text Adventures</p>	<p>Prior Learning Links: N/A</p> <p>Post Learning Links:</p> <p>Year 5 5.5 Game Creator 5.6 3D Modelling</p>	<p>Prior Learning Links:</p> <p>Year 3 3.2 Online Safety</p> <p>Year 4 4.2 Online Safety</p> <p>Post Learning Links:</p> <p>Year 5 5.2 Online Safety 5.6 Word Processing</p> <p>Year 6 6.2 Online Safety 6.6 Networks</p>	<p>Prior Learning Links:</p> <p>Year 4 4.5 Animation</p> <p>Post Learning Links:</p> <p>Year 5 5.5 Game Creator</p> <p>Year 6 6.5 Text Adventures</p>	<p>Prior Learning Links:</p> <p>Year 3 3.5 Email</p> <p>Year 4 4.7 Effective Searching</p> <p>Post Learning Links:</p> <p>Year 6 6.4 Blogging 6.5 Networks</p>	<p>Prior Learning Links:</p> <p>Year 3 3.3 Spreadsheets 3.8 Graphing</p> <p>Post Learning Links:</p> <p>Year 5 5.3 Spreadsheets 5.4 Databases</p> <p>Year 6 6.9 Spreadsheets with MS Excel</p>	<p>Prior Learning Links:</p> <p>Year 3 3.4 Touch Typing 3.5 Email 3.7 Simulations 3.9 Presenting</p> <p>Post Learning Links:</p> <p>Year 5 5.7 Concept Maps 5.8 Word Processing</p> <p>Year 6 6.4 Blogging 6.5 Text Adventures 6.7 Quizzing</p>