

# YEAR 5 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	1	2	3	1	2	3	4	5	1	2	3	4	1	2	3	4	5	6	1	2	3	4	1	2	3	4	5	6	1	2	3	4	5	6	7											
	Unit 5.1 Coding  Number of Weeks: 6 Program: 2Code  <b>Predominate Area of Computing: Computer Science</b>  NCOs: 4							Unit 5.2 Online Safety  Number of Weeks: 3  <b>Predominate Area of Computing: Digital Literacy</b>  NCOs: 2							Unit 5.5 Game Creator  Number of Weeks: 5 Program: 2DIY 3D  <b>Predominate Area of Computing: Computer Science</b>  NCOs: 2							Unit 5.7 Concept Maps  Number of Weeks: 4 Program: 2Connect  <b>Predominate Area of Computing: Information Technology</b>  NCOs: 2						Unit 5.6 3D Modelling  Number of Weeks: 4 Program: 2Design and Make  <b>Predominate Area of Computing: Information Technology</b>  NCOs: 1						Unit 5.4 Databases  Number of Weeks: 4 Program: 2Investigate 2Question  <b>Predominate Area of Computing: Information Technology</b>  NCOs: 1						Unit 5.3 Spreadsheets  Number of Weeks: 6 Program: 2Calculate  <b>Predominate Area of Computing: Information Technology</b>  NCOs: 1						<b>OPTIONAL – This Unit would be unfinished.</b>  Unit 5.8 Microsoft Word  Number of Weeks: 8 Program: Microsoft Word  <b>Predominate Area of Computing: Information Technology</b>  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	5.1 Coding 5.5 Game Creator
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	5.1 Coding
Use logical reasoning to explain how a simple algorithm works, detect and correct errors in algorithms and programs.	Computer Science	5.1 Coding
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	5.2 Online Safety
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Information Technology	Various <b>Search technologies are taught more specifically in unit 5.7.</b> Children will utilize this knowledge in many Internet based sessions in all areas of the curriculum.
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	5.1 Coding 5.3 Spreadsheets 5.4 Databases 5.5 Game Creator 5.6 3D Modelling 5.7 Concept Maps 5.8 Microsoft Word
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Digital Literacy	5.2 Online Safety *discussed in other units also.

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## Prior Learning and New Learning Links

<p>Unit 5.1 Coding</p> <p>Number of Weeks: 6 Program: 2Code</p> <p>Predominate Area of Computing: Computer Science</p> <p>NCOs: 4</p>	<p>Unit 5.2 Online Safety</p> <p>Number of Weeks: 3</p> <p>Predominate Area of Computing: Digital Literacy</p> <p>NCOs: 2</p>	<p>Unit 5.5 Game Creator</p> <p>Number of Weeks: 5 Program: 2DIY 3D</p> <p>Predominate Area of Computing: Computer Science</p> <p>NCOs: 2</p>	<p>Unit 5.7 Concept Maps</p> <p>Number of Weeks: 4 Program: 2Connect</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 2</p>	<p>Unit 5.6 3D Modelling</p> <p>Number of Weeks: 4 Program: 2Design and Make</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 5.4 Databases</p> <p>Number of Weeks: 4 Program: 2Investigate 2Question</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p>Unit 5.3 Spreadsheets</p> <p>Number of Weeks: 6 Program: 2Calculate</p> <p>Predominate Area of Computing: Information Technology</p> <p>NCOs: 1</p>	<p><b>OPTIONAL – This Unit would be unfinished.</b></p> <p>Unit 5.8 Microsoft Word</p> <p>Number of Weeks: 8 Program: Microsoft Word</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>Year 4 4.1 Coding 4.5 Logo 4.6 Animation</p> <p>New Learning Links:</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 4.7 Effective Searching</p> <p>New Learning Links:</p> <p>Year 5 5.8 Word Processing</p> <p>Year 6 6.2 Online Safety 6.4 Blogging</p>	<p>Prior Learning Links:</p> <p>Year 4 4.5 Animation 4.9 Making Music</p> <p>New Learning Links:</p> <p>Year 6 6.5 Text Adventures</p>	<p>Prior Learning Links:</p> <p>Year 3 3.5 Touch Typing 3.6 Presenting with MS PowerPoint</p> <p>Year 4 4.4 Writing for Different Audiences</p> <p>New Learning Links:</p> <p>Year 5 5.8 Word Processing</p> <p>Year 6 6.4 Blogging 6.5 Text Adventures</p>	<p>Prior Learning Links:</p> <p>Year 4 4.6 Animation</p> <p>Year 5 5.5 Game Creator</p>	<p>Prior Learning Links:</p> <p>Year 3 3.1 Coding 3.3 Spreadsheets 3.5 Databases 3.8 Graphing</p> <p>Year 4 4.1 Coding 4.3 Spreadsheets</p> <p>Year 5 5.1 Coding</p> <p>New Learning Links:</p> <p>Year 6 6.1 Coding 6.9 Quizzing 6.9 Spreadsheets with MS Excel</p>	<p>Prior Learning Links:</p> <p>Year 3 3.3 Spreadsheets 3.8 Graphing</p> <p>Year 4 4.3 Spreadsheets</p> <p>Year 5 5.4 Databases</p> <p>New Learning Links:</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</p> <p>Year 4 4.4 Writing for Different Audiences 4.7 Effective Searching</p> <p>Year 5 5.7 Concept Maps</p> <p>New Learning Links:</p> <p>Year 6 6.4 Blogging 6.5 Text Adventures</p>