

## Withymoor Primary School Computing Curriculum

### Year 1

<b>Number of Lessons</b>	<b>Unit 1.1</b>	<b>Unit 1.2</b>	<b>Unit 1.3</b>	<b>Unit 1.4</b>	<b>Unit 1.5</b>	<b>Unit 1.6</b>	<b>Unit 1.7</b>	<b>Unit 1.8</b>	<b>Unit 1.9</b>
<b>Main Tool</b>	<b>Online Safety and Exploring Purple Mash</b>	<b>Grouping and Sorting</b>	<b>Pictograms</b>	<b>Lego Builders</b>	<b>Maze Explorers</b>	<b>Animated Storybooks</b>	<b>Coding</b>	<b>Spread-sheets</b>	<b>Technology outside school</b>
	<b>4</b>	<b>2</b>	<b>3</b> <b>2Count</b>	<b>3</b>	<b>3</b> <b>2Go</b>	<b>5</b> <b>2Create a Story</b>	<b>6</b> <b>2Code</b>	<b>3</b> <b>2Calculate</b>	<b>2</b>
<b>NCCE link Possible Extensions</b>	National Online Safety to supplement	NCCE Data and Information – grouping and data L1, 2	NCCE Data and Information – grouping and data L2, 3			NCCE Introduction to animation – Scratch Junior	NCCE Program a Robot	NCCE Data and Information – L4, 5 and 6	NCCE Computing systems and Networks – technology around us

<b>Predominant Area of Computing*</b>				
<b>Computer Science</b>		<b>Information Technology</b>		<b>Digital Literacy</b>

\* most units will include aspects of all strands

Year 2

<b>Number of Lessons</b>	<b>Unit 2.1</b>	<b>Unit 2.2</b>	<b>Unit 2.3</b>	<b>Unit 2.4</b>	<b>Unit 2.5</b>	<b>Unit 2.6</b>	<b>Unit 2.7</b>	<b>Unit 2.8</b>
<b>Main Tool</b>	<b>Coding</b>	<b>Online Safety</b>	<b>Spread - sheets</b>	<b>Questioning</b>	<b>Effective Searching</b>	<b>Creating Pictures</b>	<b>Making Music</b>	<b>Presenting Ideas</b>
	<b>5</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>4</b>
	<b>2Code</b>		<b>2Calculate</b>	<b>2Question 2Investigate</b>		<b>2Paint a Picture</b>	<b>2Sequence</b>	
<b>NCCE link Possible Extensions</b>	NCCE Programming A – Robot Algorithms	National Online Safety to supplement	Show a simple example of Excel	Follow link below - Binary		NCCE Creating Media – digital photography L2,3,4 and 5 Use of Paint	NCCE Creating Media – digital music L1,2,3	NCCE Programmin g B – Program ideas – Scratch Junior L3,4,5 and 6

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[https://www.google.co.uk/search?q=understanding+binary+code+KS2+computing&hl=en&ei=dstsZOynO9a7gAaexpWIAg&ved=0ahUKEwjsuoCd0Yv\\_AhXWHcAKHShjBSEQ4dUDCA8&uact=5&oq=understanding+binary+code+KS2+computing&gs\\_lcp=Cgxnd3Mtd2l6LXNlcnAQAzIICAAQjQUQogQyBQgAEKIEMgUIABCiBDIFCAAQogQ6CggAEcQ1gQQsAM6BQgAEIAEOgYIABAWEB46CAGAEBYQHhAPOggIABCKBRCGAzoFCCEQoAE6CAghEBYQHhAdOgcIIIRCgARAKSgQIQRgAUKgHWN8XYLgeaAFwAXgAgAF6iAHicZIBAzkuNZgBAKABAcgBCMABAQ&sclient=gws-wiz-serp#fpstate=ive&vld=cid:1235b689,vid:M41M9ATm49M](https://www.google.co.uk/search?q=understanding+binary+code+KS2+computing&hl=en&ei=dstsZOynO9a7gAaexpWIAg&ved=0ahUKEwjsuoCd0Yv_AhXWHcAKHShjBSEQ4dUDCA8&uact=5&oq=understanding+binary+code+KS2+computing&gs_lcp=Cgxnd3Mtd2l6LXNlcnAQAzIICAAQjQUQogQyBQgAEKIEMgUIABCiBDIFCAAQogQ6CggAEcQ1gQQsAM6BQgAEIAEOgYIABAWEB46CAGAEBYQHhAPOggIABCKBRCGAzoFCCEQoAE6CAghEBYQHhAdOgcIIIRCgARAKSgQIQRgAUKgHWN8XYLgeaAFwAXgAgAF6iAHicZIBAzkuNZgBAKABAcgBCMABAQ&sclient=gws-wiz-serp#fpstate=ive&vld=cid:1235b689,vid:M41M9ATm49M)

Year 3

<b>Number of Lessons</b>	<b>Unit 3.1</b>	<b>Unit 3.2</b>	<b>Unit 3.3</b>	<b>Unit 3.4</b>	<b>Unit 3.5</b>	<b>Unit 3.6</b>	<b>Unit 3.7</b>	<b>Unit 3.8</b>	<b>Unit 3.9</b>
<b>Main Tool</b>	<b>Coding</b>	<b>Online Safety</b>	<b>Spread - sheets</b>	<b>Touch Typing</b>	<b>Email (inc. email safety)</b>	<b>Branching Databases</b>	<b>Simulations</b>	<b>Graphing</b>	<b>Presenting</b>
	<b>6</b> 2Code	<b>3</b>	<b>3</b> 4 lessons on Crash Course 2Calculate	<b>4</b> 2Type	<b>6</b> 2Email	<b>4</b> 2Question	<b>3</b> 2Simulate	<b>3</b> 2Graph	<b>5/6*</b> PPT
<b>NCE link Possible Extensions</b>	NCCE Programming B – Events and Actions	National Online Safety to supplement	Show a simple example of Excel and discuss – label key components	Use of MS Word to extend and developing an use of the tool bar	Use of RM Unify Outlook	NCCE Data and Information – branching databases L1,2 and 3			

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Year 4

Number of Lessons Main Tool	Unit 4.1 Coding  6 2Code	Unit 4.2 Online Safety  4	Unit 4.3 Spread-sheets  6 2Calculate	Unit 4.4 Writing for Different Audiences  5	Unit 4.5 Logo  4 2Logo	Unit 4.6 Animation  3 2Animate	Unit 4.7 Effective Searching  3	Unit 4.8 Hardware Investigators  2	Unit 4.9 Making Music  4 Busy Beats
<b>NCCE link Possible Extensions</b>	Supplement with Code.org – Sprite Lab NCCE Program a Screen Turtle L1	Supplement with National Online Safety	NCCE Data and Information – Data Logging L4 Look at Excel with pupils – do simple paired tasks	MS Publisher Desktop Publishing (Canva can be used – Teachers can sign up for free)	Supplement with code.org Artist Lab NCCE Programmin g A – repetition in shapes L2-6	Extend via use of Stop Motion App on IPADS	NCCE Computing Systems and Networks – The Internet L1,2	NCCE Computing Systems and Networks – The Internet L3,4	Extend via NCCE Creating Media – Audio Production L1,2,5

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Year 5

Number of Lessons Main Tool	Unit 5.1 Coding 6 2Code	Unit 5.2 Online Safety 3	Unit 5.3 Spreadsheets 6 2Calculate	Unit 5.4 Databases 4 2Investigate	Unit 5.5 Game Creator 5 2DIY 3D	Unit 5.6 3D Modelling 4 2Design and Make	Unit 5.7 Concept Maps 4 2Connect	Unit 5.8 Word Processing 8 MS Word
<b>NCCE link Possible Extensions</b>	NCCE Programming A – Selection in Physical Computing L1-5 Supplement with Code.org Dance Party Minecraft/ StarWars	Supplement with National Online Safety	Introduction to Spreadsheet Excel Basics - YouTube	NCCE Data and Information – flatfile databases L1,2,3	NCCE Programming A – Selection in Physical Computing L6	NCCE Creating Media – Introduction to Vector Graphics L4,5,6	Extend via NCCE Programming B – Selection in Quizzes L1,2	Extend via use of MS PowerPoint and MS Publisher

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Year 6

Number of Lessons Main Tool	Unit 6.1 Coding 6 2Code	Unit 6.2 Online Safety 2	Unit 6.3 Spreadsheets 6 2Calculate	Unit 6.4 Blogging 4 2Blog	Unit 6.5 Text Adventures 5	Unit 6.6 Networks 3	Unit 6.7 Quizzing 6 2Quiz	Unit 6.8 Understand Binary 4	Unit 6.9 Spreadsheets 8 Excel
<b>NCCE link Possible Extensions</b>	Extend via Code.org Game and App Lab Games with Events	Supplement with National Online Safety and RHSE coverage for Online Safety	Excel – use 'How to use KS2 Spreadsheets' Computing Lesson Plans – YouTube Revise NCCE Data and Information – Intro to Spreadsheets Independently	Extend via NCCE – Creating media – web page creation		NCCE Computing Systems and Networks – Communication and Collaboration	Extend by creating quizzes on PowerPoint with animations etc	Use link below	Revise NCCE Data and Information – Intro to Spreadsheets Independently

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