

English National Curriculum Objectives (Key Stage 1)

National Curriculum Objective	Strand	Units
Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Computer Science	1.4 1.5 1.7
Create and debug simple programs	Computer Science	1.5 1.7
Use logical reasoning to predict the behaviour of simple programs.	Computer Science	1.5 1.7
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Information Technology	1.2 1.3 1.6 1.7 1.8
Recognise common uses of information technology beyond school	Digital Literacy	1.9
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.	Digital Literacy	1.1

Year 1 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
YEAR 1	Unit 1.1 Online Safety & Exploring Purple Mash				Unit 1.2 Grouping & Sorting		Unit 1.3 Pictograms			Unit 1.4 Lego Builders			Unit 1.5 Maze Explorers		Unit 1.6 Animated Story Books					Unit 1.7 Coding				Unit 1.8 Spreadsheets			Unit 1.9 Technology outside school				
	Number of Weeks – 4 Tools Used – Avatar creator Paint Projects Writing Templates 2Count (Pictograms) 2Explore (Music)				Weeks – 2 Programs – 2Quiz		Weeks – 3 Programs – 2Count 2Connect			Weeks – 3 Programs – 2Quiz Paint Projects Writing Templates			Weeks – 3 Programs – 2Go		Weeks – 5 Programs – 2Create A Story					Weeks – 6 Programs – 2Code				Weeks – 3 Programs – 2Calculate			Weeks – 2 Programs – Writing Templates				

English National Curriculum Objectives (Key Stage 1)

National Curriculum Objective	Strand	Units
Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Computer Science	2.1
Create and debug simple programs	Computer Science	2.1
Use logical reasoning to predict the behaviour of simple programs.	Computer Science	2.1
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Information Technology	2.3 2.4 2.5 2.6 2.7 2.8
Recognise common uses of information technology beyond school	Digital Literacy	2.5*
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.	Digital Literacy	2.2*

*And in other units when appropriate.

Year 2 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 2	Unit 2.1 Coding					Unit 2.2 Online Safety			Unit 2.3 Spreadsheets				Unit 2.4 Questioning				Unit 2.5 Effective Searching		Unit 2.6 Creating Pictures			Unit 2.7 Making Music		Unit 2.8 Presenting Ideas								
	Number of Weeks – 5 Main Programs – 2Code					Weeks – 3 Programs - Writing Templates Display boards 2Respond (2Email)			Weeks – 4 Programs – 2Calculate				Weeks – 5 Programs – 2Question, 2Investigate 2Calculate				Weeks – 3 Programs – Browser 2Quiz Writing Templates		Weeks – 5 Programs – 2Paint A Picture Writing Templates			Weeks – 3 Programs – 2Sequence		Weeks – 4 Programs – 2Connect (Mind Map) 2Create a Story (ebook) 2Quiz Writing Templates								

English National Curriculum Objectives (Key Stage 2)

National Curriculum Objective	Strand	Units
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Computer Science	3.1
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	3.1
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Computer Science	3.1
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	3.5
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Information Technology	
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Information Technology	3.4 3.5 3.6 3.7 3.8
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Digital Literacy	3.2 3.5

Year 3 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 3	Unit 3.1 Coding						Unit 3.2 Online Safety			Unit 3.3 Spreadsheets			Unit 3.4 Touch-Typing				Unit 3.5 Email (including email safety)				Unit 3.6 Branching Databases			Unit 3.7 Simulations			Unit 3.8 Graphing					
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 3 Programs – 2Connect (Mind Map) 2Blog (Blogging) Writing Templates Display boards			Weeks – 3 Programs – 2Calculate			Weeks – 4 Programs – 2Type				Weeks – 6 Programs – 2Email				Weeks – 4 Programs – 2Question			Weeks – 3 Programs – 2Simulate, Writing Templates			Weeks – 3 Programs – 2Graph Writing Templates 2Blog (Blogging)					

**Unit 3.9
Using Microsoft
PowerPoint**

(Optional Unit)
Number of Lessons – 6

**Main program – MS
PowerPoint**

English National Curriculum Objectives (Key Stage 2)

National Curriculum Objective	Strand	Units
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Computer Science	4.1 4.5
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	4.1 4.5
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Computer Science	4.1 4.5
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 4.7 4.8
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Information Technology	4.7
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Information Technology	4.1 4.3 4.4 4.6 4.9
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*

*And discussed in other units

Year 4 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 4	Unit 4.1 Coding						Unit 4.2 Online Safety				Unit 4.3 Spreadsheets					Unit 4.4 Writing for Different Audiences					Unit 4.5 Logo			Unit 4.6 Animation		Unit 4.7 Effective Searching		Unit 4.8 Hardware Investigators				
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 4 Programs - 2Connect (Mind Map) 2Publish Plus Display boards				Weeks – 5 Programs – 2Calculate					Weeks – 5 Programs – Writing Templates 2Simulate 2Connect (Mind Map) 2Publish Plus					Weeks – 4 Programs – 2Logo			Weeks – 3 Programs – 2Animate		Weeks – 3 Programs – Browser 2Quiz 2Connect (Mind Map)		Weeks – 2 Programs – 2Quiz 2Connect (Mind Map) Writing Templates				

**Unit 4.9
Making Music**

(Optional Unit)
Number of Lessons – 4

**Main Program – Busy
Beats**

English National Curriculum Objectives (Key Stage 2)

National Curriculum Objective	Strand	Units
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Computer Science	5.1 5.5
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	5.1
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Computer Science	5.1
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
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Information Technology	Various Search technologies are taught more specifically in unit 4.7. 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 design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Information Technology	5.1 5.3 5.4 5.5 5.6 5.7 5.8
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 and discussed in other units

Year 5 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 5	Unit 5.1 Coding						Unit 5.2 Online Safety			Unit 5.3 Spreadsheets						Unit 5.4 Databases				Unit 5.5 Game Creator				Unit 5.6 3D Modelling				Unit 5.7 Concept Maps				
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 3 Programs - 2Publish Plus Writing Templates Display boards 2Connect (Mind Map)			Weeks – 6 Programs – 2Calculate						Weeks – 4 Programs – 2Investigate (database) Avatar creator				Weeks – 5 Programs – 2DIY 3D Writing Templates 2Blog (Blogging)				Weeks – 4 Programs – 2Design and Make Writing Templates				Weeks – 4 Programs – 2Connect				

Unit 5.8
Microsoft Word

(Optional Unit)

Number of Lessons – 8

Main program – MS
Word

English National Curriculum Objectives (Key Stage 2)

National Curriculum Objective	Strand	Units
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Computer Science	6.1 6.5, 6.9
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	6.1
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	6.5
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Computer Science	6.1 6.5, 6.9
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	6.2
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	6.4
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	6.6
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Information Technology	6.2
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Information Technology	6.1, 6.3 6.4, 6.5 6.7, 6.9
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact*.	Digital Literacy	6.2 6.4

*And discussed in other units.

Year 6 Whole Year Overview

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 6	Unit 6.1 Coding						Unit 6.2 Online Safety			Unit 6.3 Spreadsheets					Unit 6.4 Blogging			Unit 6.5 Text Adventures				Unit 6.6 Networks			Unit 6.7 Quizzing							
	Number of Weeks – 6 Main Programs – 2Code						Weeks – 3 Programs - 2DIY 3D 2DIY 2Code 2Blog (Blogging)			Weeks – 5 Programs – 2Calculate					Weeks – 4 Programs – 2Blog			Weeks – 5 Programs – 2Code, 2Connect, 2Create a Story, Writing Templates				Weeks – 3 Programs – 2Connect (Mind Map) Writing Templates			Weeks – 6 Programs – 2DIY 2Quiz Text Toolkit 2Investigate (database)							

There are two optional units that can be used in addition to the above units:

<p align="center">Unit 6.8 Understanding Binary (Optional Unit)</p> <p align="center">Number of Lessons – 4</p> <p>Main programs – 2Connect, (Mind Map), 2Question (Binary Databases), Writing Templates, 2Code</p>

<p align="center">Unit 6.9 Microsoft Excel (Optional Unit)</p> <p align="center">Number of Lessons – 8</p> <p>Main program – MS Excel</p>
