

Darwen St James CE Primary Academy Computing Curriculum 2021/22

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
Year 1	Using Cromebooks - logging on/off and accessing PM 2 weeks Online safety 1:1 4 weeks	Grouping and sorting 1:2 2 weeks Pictograms 1:3 3 weeks Christmas Card Competition	Lego builders 1:4 3 weeks Maze explorers 1:5 3 weeks Safer Internet Day Tues 8/2/22	Coding 1:7 6 weeks	Animated stories 1:6 5 weeks	Spreadsheets 1:8 3 weeks Technology outside school 1:9 2 weeks

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 to purposefully 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

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
--	-----------------------------	-----------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------

Year 2	Online safety 2.2 3 weeks Effective searching 2.5 3 weeks	Spreadsheets 2.3 4 weeks Making music 2.7 3 weeks Christmas Card Competition	Questioning 2.4 5 weeks Safer Internet Day Tues 8/2/22	Coding 2.1 5 weeks	Presenting ideas 2.8 4 weeks	Creating pictures 2.6 5 weeks
---------------	---	---	--	------------------------------	--	---

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 to purposefully 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

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
--	-----------------------------	-----------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------

Year 3	Online safety 3.2 3 weeks Spreadsheets 3.3 3 weeks	Coding 3.1 6 weeks Christmas Card Competition	Touch typing 3.4 4 weeks Safer Internet Day Tues 8/2/22	Branching databases 3.6 4 weeks Simulations 3.7 3 weeks	Animated Stories 3.6 6 weeks	Graphing 3.8 3 weeks
---------------	---	---	---	---	--	--------------------------------

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
--	------------------	---------

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
--	-----------------------------	-----------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------

Year 4	Online safety 4.2 4 weeks Hardware investigators 4.8 2 weeks	Coding 4.1 6 weeks Christmas Card Competition	Spreadsheets 4.3 5 weeks Safer Internet Day Tues 8/2/22	Logo 4.5 4 weeks Animation 4.6 3 weeks	Writing for different audiences 4.4 5 weeks	Effective searching 4.7 3 weeks
---------------	---	--	---	---	---	---

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
--	------------------	-----

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
--	-----------------------------	-----------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------

Year 5	Online safety 5.2 3 weeks Databases 5.4 4 weeks	Coding 5.1 6 weeks Christmas Card Competition	Game creator 5.5 5 weeks Safer Internet Day Tues 8/2/22	Spreadsheets 5.3 6 weeks	Modelling 5.6 4 weeks	Concept maps 5.7 4 weeks
---------------	--	---	---	------------------------------------	---------------------------------	------------------------------------

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 utilise 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.
--	------------------	-----------------------------------

	Autumn 1 7 Weeks	Autumn 2 7 Weeks	Spring 1 5 Weeks 4 Days	Spring 2 6 Weeks 4 days	Summer 1 5 Weeks 4 days	Summer 2 5 Weeks 3 days
--	-----------------------------	-----------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------

Year 6	Online safety 6.2 3 weeks Blogging 6.4 4 weeks	Coding 6.1 6 weeks Christmas Card Competition	Spreadsheets 6.3 5 weeks Safer Internet Day Tues 8/2/22	Quizzing 6.7 6 weeks	Text adventures 6.5 5 weeks	Networks 6.6 3 weeks
---------------	---	---	---	--------------------------------	---------------------------------------	--------------------------------

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 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 6.4 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

