



Singlewell Primary School – Computing Curriculum Overview 2026/2027



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS	<u>Explored through provision:</u> - Programming floor robots to move. - Types and uses of technology in everyday life. - Using an IPAD to tap, swipe and explore using simple software such as games, camera app. - Creating their own pictures using a paint app. <u>Taught through discrete Be Safe lessons:</u> - Understanding that technology can be used for communication. - Recognise the difference between online and offline. - Understanding that not everybody online is safe. - Know who they can go to for help if they feel unsafe, or someone is being unkind to them online. <i>I can draw and understand a simple map of a place familiar to me.</i>					
Year 1	Intro to Purple Mash (3wks) Creative Computing (4wks) NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. ~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. <i>PD: Online Safety – how to keep passwords safe.</i>	Data Explorers NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. ~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. <i>PD: Recognise and celebrate diversity when collecting and analysing class data</i>	Technology around us (4wks) NC Link: Use technology safely and respectfully, keeping personal information private; identify where to go for help when they have concerns about content or contact on the internet or other online technologies. ~Recognise common uses of IT beyond school Creating & Following instructions (3wks) NC: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs follow precise instructions. <i>PD: Responsibility – Discussion on where technology is used within wider world. How do we use it safely?</i>	Making Beats NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content <i>PD Links:</i> <i>Diversity – create different kinds of sounds for different cultures or genres/styles of music.</i>	Coding NC Link: Create and debug simple programs ~Use logical reasoning to predict the behaviour of simple programs <i>PD: Resilience – What do we do if coding goes wrong?</i>	Animated stories NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. ~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. <i>PD: Responsibility – creating animated stories for younger pupils. Are they appropriate?</i>

Year 2	The Internet (4wks) NC Link: Recognise common uses of information technology beyond school Questioning (3wks) NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. ~Recognise common uses of information technology beyond school <i>PD: Online safety poster - Create top tips for safe searching on the Internet.</i>	Creating Pictures NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. <i>PD: Self-expression and Creativity - express their ideas through digital art. Respect for Others' Work/ Mutual respect - give constructive and kind feedback to peers about their work.</i>	Spreadsheets NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. <i>PD: Teamwork & Communication - working with data in pairs or small groups. Real-World Connections - how might spreadsheets be used in the real world?</i>	Presenting and sharing ideas NC Link: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. <i>PD: Collaboration & Communication - Working in pairs. Mutual Respect & Tolerance: listening to classmates' presentations, respecting ideas for different formats and viewpoints.</i>	Route Explorers NC Link: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise instructions. ~Create and debug simple programs. ~Use logical reasoning to predict the behaviour of simple programs. <i>PD: Helping the community - (Automated machines) Design an automated machine that could help someone in the community.</i>	Coding NC Link: Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise instructions. ~Create and debug simple programs ~Use logical reasoning to predict the behaviour of simple programs <i>PD: Technological awareness - Find examples of where code is used in everyday life.</i>
Year 3	Emails NC Link: Understand computer networks; how they can provide multiple services, such as the world wide web; and the opportunities for communication and collaboration. ~Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. <i>PD: Respect and confidentiality - Email your friend with 3 top tips for email safety. Rule of Law - following e-safety rules.</i>	Route Planners NC Link: Design, write and debug programs that accomplish specific goals: controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. <i>PD: Problem-solving, logical thinking and building resilience- how do we solve problems? What steps do we need to take?</i>	Branching databases NC Link: 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. <i>PD: Respecting diversity and differences in the world. - Identifying similarities and differences within different groups.</i>	Presentations - Microsoft, Google and Apple NC Link: 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 <i>PD: Individual Liberty - expressing ideas freely and creatively. Building confidence- sharing ideas to groups of people.</i>	Coding NC Link: Design, write and debug programs that accomplish specific goals: controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. <i>PD: Resilience and a growth mind-set - coding trial and error - Logical reasoning & independence - what steps does your code need?</i>	Spreadsheets NC Link: 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. <i>PD: Money and financial planning - budgeting in spreadsheets</i>

Year 4	Unpacking hardware and software NC Link: 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: collecting, analysing, evaluating and presenting data/information. ~Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; how to report concerns about content and contact. PD: Individual Liberty - knowledge gives children freedom to make informed choices about how technology works/how it can be used.	Logo (4wks) Effective searching (3wks) NC Link: Design, write and debug programs that accomplish specific goals: controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. ~Use search effectively, appreciate how results are selected and ranked, evaluate digital content. PD: Resilience & problem-solving - Using repeated commands and debugging when patterns don't work as expected. Rule of Law - following rules in programming leads to success. Responsibility & digital citizenship - Top tips for safe searching.	Animation NC Link: 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: collecting, analysing, evaluating and presenting data and information. PD: Creativity and expression - Planning and producing animations of their own. Mutual Respect - Viewing and respecting peer animations; giving constructive feedback.	Coding NC Link: Design, write and debug programs that accomplish specific goals: controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. PD: Growth mind-set & resilience - Learning that "failing" code means refining, not giving up. Rule of Law - Children learn about programming has rules and structures.	Sound stories NC Link: 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: collecting, analysing, evaluating and presenting data and information. PD: Disability and acceptance - who might use audiobooks, how might this enrich their lives?	Introduction to AI NC Link: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Composing Beats NC Link: 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: collecting, analysing, evaluating and presenting data and information. PD: Individual Liberty - Children will have choice over sound, rhythm, tempo, style in compositions. Mutual respect - Children to appraise their friend's digital music with respect.
Year 5	Quizzing NC Link: 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: collecting, analysing, evaluating and presenting data/information. PD: Collaboration: working in pairs to test each other's quizzes, give feedback. Mutual Respect & Tolerance - appreciating classmates' different topics and questions.	Databases NC Link: 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: collecting, analysing, evaluating and presenting data/information. PD: Responsibility: understanding what sensitive data is and how to store it safely. Respect and moral responsibility: remember that data represents a person.	Spreadsheets NC Link: Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~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: collecting, analysing, evaluating and presenting data/information. PD: Rule of Law following correct rules to create successful formula. Problem-solving - if formulae don't work, pupils investigate and correct mistakes.	Coding NC Link: Design, write and debug programs that accomplish specific goals: controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. PD: Perseverance and growth mindset: debugging, redoing and improving code. Creativity - pupils design what they want the code to do: the look/ the user	Game generator NC Link: 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: collecting, analysing, evaluating and presenting data/information. PD: Mutual Respect - playing each other's games, giving and receiving feedback. Creative expression and decision-making: designing game mechanics, storylines, characters.	Word-processing NC Link: 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: collecting, analysing, evaluating and presenting data/information. PD: Communication skills - Pupils produce text with a specific purpose such as a letter or information leaflet. Rule of Law - respecting copyright, permissions when using images and text.

Year 6	Networks NC Link: 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. ~Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. <i>PD: Rule of law</i> – need for rules in networks, cyber-security, rights & responsibilities online.. <i>Reflecting on own digital footprint</i>, trustworthiness, being responsible.	Graphing NC Link: 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: collecting, analysing, evaluating and presenting data/information. <i>PD: Critical thinking and decision-making</i> – using data sensitively to answer questions.	Coding NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. <i>PD: Resilience</i> – steps to success, what to do when coding does not work?	Introduction to Python NC Link: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. ~Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. <i>PD: Growth-mindset:</i> tackling something new and more challenging. Tolerance – code is used by different cultures; respect for diverse users.	Spreadsheets – Microsoft, Apple and Google NC Link: 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: collecting, analysing, evaluating and presenting data/information. <i>PD: Digital proficiency:</i> being confident across different technologies. Everyday application – where are these programs used in the world?	Blogging (4ks) NC Link: 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: collecting, analysing, evaluating and presenting data/information. Use IT safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. <i>PD: Individual liberty</i> – freedom of expression (within rules). Rule of law – understanding defamation, copyright, acceptable use policies. 3D Modelling (3wks) NC: as above <i>PD: Technology and innovation:</i> designing models for everyday use. Collaboration: peer feedback, sharing designs.
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Computer strands in the progression documents – CS - Computer Science IT - Information Technology DL - Digital Literacy