

Predominant Area of Computing

Computer Science

Information Technology

Digital Literacy

Organisation of knowledge		Safe, effective and competent use of technology Personal use, devices, safety	Computer science and coding Algorithms, programming	Using information effectively Personal information, software/app knowledge
EYFS	Relevant ELG	ELG: Managing self ✓ be confident to try new activities and show independence, resilience and perseverance in the face of challenge ✓ explain the reasons for rules, know right from wrong and try to behave accordingly	ELG: Creating with materials ✓ Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form, and function	ELG: Creating with materials ✓ Share their creations, explaining the process they have used
	KS1 readiness objectives	✓ Awareness of different technologies in and out of school ✓ Awareness of the cause and effect of technology ✓ Awareness of digital storage of information- photography, digital writing and research information ✓ Awareness of input and outputs of devices ✓ Can use technology to express creatively and constructively	✓ Awareness of the cause and effect of technology ✓ Awareness of digital storage of information- photography, digital writing and research information ✓ Awareness of input and outputs of devices ✓ Can use technology to express creatively and constructively	✓ Awareness of different technologies in and out of school ✓ Awareness of the cause and effect of technology ✓ Awareness of digital storage of information- photography, digital writing and research information ✓ Awareness of input and outputs of devices ✓ Can use technology to express creatively and constructively

Reception

Early Years (Reception) - Rather than a scheme with set lessons, the early years resources are designed to integrate into the day-to-day routine and set-up of an early years setting with opportunities for using Mini Mash or Purple Mash as part of the Early Years curriculum to support children in working towards early learning goals. In addition, there are units of suggested ideas that focus on computing skills specifically, that can also be provided as opportunities for learning as part of the topics in other areas to give children a sound basis to explore topics using technology and to be ready for progressing through the Computing curriculum. These are as follows and are designed to be integrated and linked to wider early years curriculum areas. These have been loosely classified into the three streams but there is overlap between all three streams.

Mouse and Trackpad Skills	Keyboard Skills	Drawing Skills	Robots	Sounds	Photography
Technology Around Us	Hardware	Safety and Privacy	Quizzes	Using purple mash with an individual log in	

	Autumn			Spring			Summer		
Year 1	Unit 1.1	Unit 1.2	Unit 1.3	Unit 1.4	Unit 1.5	Unit 1.6	Unit 1.7	Unit 1.8	Unit 1.9
	Online Safety & Exploring Purple Mash	Grouping & Sorting	Pictograms	Lego Builders	Maze Explorers	Animated Story books	Bee Bots	Spreadsheets	Technology outside school
	4 lessons	2 lessons	3 lessons	3 lessons	3 lessons 2Go	5 lessons 2Create A Story	6 lessons 2Code	3 lessons 2Calculate	2 lessons

	Autumn			Spring			Summer		
Year 2	Unit 2.1	Unit 2.2	Unit 2.3	Unit 2.4	Unit 2.5	Unit 2.6	Unit 2.7	Unit 2.8	
	Coding	Online Safety	Spreadsheets	Questioning	Effective Searching	Creating Pictures	Making Music	Presenting Ideas	
	2 lessons 2Code	3 lessons	4 lessons 2Calculate	3 lessons 2Question 2Investigate	3 lessons	5 lessons 2Paint A Picture	3 lessons 2Sequence	4 lessons	

	Autumn			Spring			Summer		
Year 3	Micro:Bits	Unit 3.2	Unit 3.3	Unit 3.4	Unit 3.5	Unit 3.6	Unit 3.7	Unit 3.8	Unit 3.9
	First lessons with MakeCode and the micro:bit	Online Safety	Spreadsheets	Touch Typing	Email (including emails safety)	Creating Pictures	Branching Databases	Graphing	Presenting
	5 lessons	3 lessons	3 lessons 2Calculate	4 lessons 2Type	6 lessons 2Email	5 lessons 2Paint A Picture	4 lessons 2Qestions	2 lessons 2 Graph	5/6 lessons PowerPoint/ Google Slides

	Autumn			Spring				Summer		
Year 4	Unit 4.2	Unit 4.3	Unit 4.4	Unit 4.5	Unit 4.6	Unit 4.7	Unit 4.8	Micro:Bits Electrical	Unit 4.9	Unit 4.1 (Optional)
	Online safety	Spreadsheets	Writing for Different Audiences	Logo	Animation	Effective Searching	Hardware Investigators	Conductors	Making Music	Introducing AI
	4 lessons	6 lessons 2Calculate	5 lessons	4 lessons 2Logo	3 lessons 2Animate	3 lessons 2Paint A Picture	2 lessons 2Connect	5 lessons Make Code	4 Lessons Busy Beats	4 lessons

	Autumn			Spring			Summer		
Year 5	Unit 5.2	Unit 5.3	Unit 5.4	Micro:Bits	Unit 5.5	Unit 5.6	Unit 5.7	Unit 5.8	Micro:bit Optional Unit
	Online safety	Spreadsheets	Databases	Students compose musical phrases and algorithms	Game Creator	3D Modelling	Concept Maps	Word Processing	Protecting Animals on Land
	3 lessons	6 lessons 2Calculate	4 lessons 2Investigate	5 lessons	5 lessons 2DIY 3D	4 lessons 2 Design & Make	5 lessons 2Design& Make	8 lessons MS Word or Google Docs	3 Lessons

	Autumn			Spring			Summer		
Year 6	Unit 6.2	Unit 6.3	Unit 6.4	Unit 6.5	Unit 6.6	Unit 6.7	Unit 6.8	Unit 6.9	Micro:Bit Unit
	Online safety	Spreadsheets	Blogging	Text Adventures	Networks	Quizzing	Understanding Binary	Spreadsheets	Energy awareness
	2lessons	5 lessons 2Calculate	4 lessons 2 Blog	5 lessons	3 lessons	6 lessons 2QUIZ	4 lessons	8 lessons	6 lessons Make Code