



Computing Curriculum Progression Overview



Year 1						
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Purple Mash Unit and Programmes used	Unit 1.1 Online Safety and Exploring Purple Mash Various Programmes Unit 1.2 Grouping and Sorting 2DIY	Unit 1.3 Pictograms Unit 1.4 Lego Builders Unit 1.5 Maze Explorers 2Count, 2DIY,2Go	Unit 1.5 Maze Explorers Unit 1.6 Animated Story Books 2Go, 2Create A Story	Unit 1.6 Animated Story Books Unit 1.7 Coding 2Create A Story, 2Code	Unit 1.7 Coding Unit 1.8 Spreadsheets 2Code, 2Calculate	1.9 Technology outside school Various Programmes
National Curriculum Outcomes	Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Digital Literacy 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 Recognise common uses of information technology	Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs. Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs.	Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs.	Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs.	Recognise common uses of information technology beyond school
E-Safety	beyond school	e-safety to be	covered in all terms through	class assemblies and integrat	ed into lessons	



Year 2						
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Purple Mash Unit and Programmes used National Curriculum Outcomes	Autumn One Unit 2.1 Coding 2Code Unit 2.2 Online Safety Various Programmes Computer Science Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs	Autumn Two Unit 2.2 Online Safety Various Programmes Unit 2.3 Spreadsheets 2 Calculate Unit 2.4 Questioning 2 Question, 2Investigate Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Spring One Unit 2.4 Questioning 2Question, 2Investigate Unit 2.5 Effective Searching Browser Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Information Technology Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or online technologies Spring Two Unit 2.6 Creating Music 2Sequence Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content Digital Literacy 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	Summer One Unit 2.7 Making Music 2Sequence Unit 2.8 Presenting Ideas Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Information Technology Use technology purposefully to create, organise, store, manipulate and retrieve digital content
E-Safety			e covered in all terms through	Recognise common uses of information technology beyond school		



Year 3						
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Purple Mash Unit and Programmes used National Curriculum Outcomes	Autumn One Unit 3.1 Coding 2Code Computer Science 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	Autumn Two Unit 3.2 Online Safety Unit 3.3 Spreadsheets 2Calculate Unit 3.4 Touch Typing 2Type Computer Science 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 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	Spring One Unit 3.4 Touch Typing 2Type Unit 3.5 Email 2Email, 2Connect, 2DIY Computer Science 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 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	Spring Two Unit 3.5 Email 2Email, 2Connect, 2DIY Unit 3.6 Branching Databases 2Question Computer Science 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 Information Technology Select, use and combine a variety of software (including internet services) on a range of digital devices to design	Summer One Unit 3.6 Branching Databases	Summer Two Unit 3.7 Simulations 2Simulate, 2Publish Unit 3.8 Graphing 2Simulate, 2Publish 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
	programs	presenting data and information Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	presenting data and information Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information		
E-Safety		E-Safety to	be covered in all terms through	ciass assemblies and integrated i	nto lessons	





Year 4						
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Purple Mash Unit and Programmes used National Curriculum Outcomes	Computer Science 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 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	Unit 4.2 Online Safety Unit 4.3 Spreadsheets 2Calculate Computer Science 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 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 Digital Literacy Use technology safely, respectfully and responsibly; recognise	Spring One Unit 4.3 Spreadsheets	Spring Two Unit 4.4 Writing for different audiences 2Email, 2Connect, 2DIY Unit 4.5 Logo Logo Computer Science 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	Summer One Unit 4.6 Animation 2Animate Unit 4.7 Effective Search Browser Computer Science 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 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	Summer Two Unit 4.7 Effective Search Browser Unit 4.8 Hardware Investigators Computer Science 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 Information Technology Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
	, J. J.	recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact			data and information	
E-Safety	1	E-Safety to	o be covered in all terms through	class assemblies and integrated i	into lessons	



Year 5						
1	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Purple Mash Unit and Programmes used National Curriculum Outcomes	Autumn One Unit 5.1 Coding 2Code Computer Science 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	Autumn Two Unit 5.2 Online Safety Unit 5.3 Spreadsheets 2Calculate Computer Science 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 Information Technology Select, use and combine a variety of software (including internet	Spring One Unit 5.3 Spreadsheets 2Calculate Unit 5.4 Databases 2Question, 2Investigate 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	Spring Two Unit 5.5 Game Creator 2DIY 3D Computer Science Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts 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	Summer One Unit 5.6 3D Modelling 2Design and Make Unit 5.7 Concept Maps 2Connect 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	Summer Two Unit 5.7 Concept Maps 2Connect 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
E-Safety	algorithms work and to detect and correct errors in algorithms and programs Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	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	o be covered in all terms through	programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	into lessons	





Purple Mash Unit 6.1 Co Unit and Programmes used	oding Unit 6.2 Online Safety	Spring One Unit 6.4 Blogging 2Blog	Spring Two Unit 6.5 Text Adventures	Summer One Unit 6.6 Networks	Summer Two
Unit and 2Code Programmes	Unit 6.3 Spreadsheets			Unit 6.6 Notworks	
National Curriculum Outcomes Design, write ar programs that a specific goals, ir controlling or si physical system problems by de them into small Use sequence, so repetition in protection in protec	networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and cellection, and grams; work and various and output oning to the simple and to detect rs in programs Togy T	Internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration 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	Computer Science 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 Information Technology	Unit 6.7 Quizzing 2Quiz, 2DIY, Text Toolkit, 2Investigate 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	Unit6.7 Quizzing 2Quiz, 2DIY, Text Toolkit, 2Investigate Computer Science 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 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,
programs, syste content that acc goals, including analysing, evalu presenting data information	omplish given collecting, ating and and and Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns abou content and contact	collecting, analysing, evaluating and presenting data and information Digital Literacy Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact to be covered in all terms through	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	nto lossons	evaluating and presenting data and information