

Area of study	Foundation stage	KS1			KS2		
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science		Units – 1.4, 1.5, 1.7 Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Units – 2.1 Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Unit – 3.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Unit – 4.1, 4.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Unit – 5.1, 5.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Unit – 6.1, 6.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
		Units – 1.5, 1.7 create and debug simple programs	Unit – 2.1 create and debug simple programs use logical reasoning to predict the behaviour of simple programs	Unit - 3.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Unit – 4.1, 4.5 use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Unit - 5.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Unit – 6.1, 6.5 use sequence, selection, and repetition in programs; work with variables and various forms of input and output
		Units – 1.5, 1.7 use logical reasoning to predict the behaviour of simple programs	Unit – 2.1 use logical reasoning to predict the behaviour of simple programs	Unit – 3.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Unit – 4.1, 4.5 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Unit – 5.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Unit – 6.1, 6.5 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
			Unit – 3.5 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	Unit – 4.2, 4.7, 4.8 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	Unit – 5.2 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	Unit – 6.2, 6.4, 6.6 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		Units – 1.2, 1.3, 1.6, 1.7, 1.8 use technology purposefully to create, organise, store, manipulate and retrieve digital content	Units – 2.3, 2.4, 2.5, 2.6, 2.7, 2.8 use technology purposefully to create, organise, store, manipulate and retrieve digital content	Recap – Unit 2.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Unit – 4.7 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Recap – Unit 4.7 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Unit 6.2 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
				Units – 3.3, 3.4, 3.5, 3.6, 3.7, 3.8 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.	Units – 4.1, 4.3, 4.4, 4.6 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.	Units – 5.1, 5.3, 5.4, 5.5, 5.6, 5.7 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.	Units – 6.1, 6.3, 6.4, 6.5, 6.7 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.
Digital Literacy		Units – 1.9 recognise common uses of information technology beyond school	Unit – 2.5 and others when appropriate recognise common uses of information technology beyond school	Units – 3.2, 3.5 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Units – 4.2 and discussed through all other units. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Units – 5.2 and discussed through all other units. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Units – 6.2, 6.4 and discussed through all other units use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
		Units – 1.1 use technology safely and respectfully, keeping personal information private;	Units – 2.2 and ALL others where possible use technology safely and respectfully, keeping personal information private;				

Purple Mash used throughout Foundation following the EYFS Framework and Early Learning Goals.

		identify where to go for help and support when they have concerns about material on the internet or other online technologies	identify where to go for help and support when they have concerns about material on the internet or other online technologies				
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