Computing

Curriculum Map and Assessment Framework

Computing – EYFS

ELG	Pupil outcomes / Year 1 readiness Computing knowledge and understanding	Other opportunities to develop computing understanding
Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.	 I can operate simple equipment (e.g. using a remote control, turning on a CD player) I can complete a simple program (e.g. playing a simple game on an iPad) I can take photographs of my work using a school camera or iPad 	 A range of programmable toys (e.g. Bee-bots) Recording their voices using talking tins Use of MiniMash

Computing Curriculum Expectations – KS1		Year 1			Year 2	
Computer Science	Autumn	Spring	Summer	Autumn	Spring	Summer
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						
Digital Literacy						
Recognise common uses of information technology beyond school						
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						

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Autumn Term Unit 1.1 Safety & Exploring Purple Mash Area of Computing: 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	Use and communicate online safely and respectfully	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Understand the importance of keeping information private and actively demonstrating this. Taking ownership of their own private space to save work 	 I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.
Curriculum Narrative Previous Learning	Children would have been exposed to a ra different forms of digital technology and s	nge of technolog ome subject spe	y both in school and at home. Pupils will be familiar with cific vocabulary.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Autumn Term Unit 1.2 Grouping and sorting Area of Computing: 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.	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. 	 I can sort sound, pictures and text. I can name my work. I can save my work. I can find my work. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.

Curriculum	Children will have some experience programming toys such as Bee – bots using algorithms.	
Narrative		
Previous		
Learning		

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Autumn Term Unit 1.3 Pictograms Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. 	 I can change content on a file such as text, sound and images I can name my work. I can save my work. I can find my work. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.
Curriculum Narrative Previous Learning	Children would have been exposed to a range of technology both in school and at home. Pupils will be familiar with different forms of digital technology and some subject specific vocabulary.			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Spring Term 1.4 Lego Builders Area of Computing:	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Understand use of algorithms. Design, write and test programs to achieve	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary 	 I can explain that an algorithm is a set of instructions. I know that an algorithm written for a computer is called a program. I can work out what is wrong when the steps are out of order in instructions.

Computer Science	goals, including solving problems. Use logical reasoning to	 Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.
	make predictions.		
Curriculum Narrative	Children would have been exposed to a range of technology forms of digital technology and some subject specific vocabu	both in school and at home. Pupils will be familiar with different lary.	
Previous Learning			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Spring Term Unit 1.5 Maze Explorers Area of Computing: 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.	Understand use of algorithms. Design, write and test programs to achieve goals, including solving problems. Use logical reasoning to make predictions.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can explain that an algorithm is a set of instructions. I can work out what is wrong when the steps are out of order in instructions. I can make good guesses of what is going to happen in a program. For example, where the turtle might go. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.

Curriculum Narrative	Children would have been exposed to a range of technology both in school and at home. Pupils will be familiar with different forms of digital technology and some subject specific vocabulary.	
Previous Learning		

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Spring Term Unit 1.6 Animated Story Books Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Design, write and test programs to achieve goals, including solving problems. Uses of IT outside of school.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can name my work. I can find my work. I can save my work. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder. I can change content on a file such as text, sound and images. I can add sound, pictures and text to a program such as 2Create a Story.
Curriculum Narrative Previous Learning	Children would have been exposed to a range forms of digital technology and some subject	of technology b specific vocabula	both in school and at home. Pupils will be familiar with different ary.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Summer Term Unit 1.7 Coding Area of Computing:	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	Understand use of algorithms Design, write and test programs to achieve goals,	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary 	 I can name my work. I can find my work. I can save my work. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder.

Computer Science	Use logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content	including solving problems. Use logical reasoning to make predictions.	 Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can change content on a file such as text, sound and images. I can make good guesses of what is going to happen in a program. For example, where the turtle might go. I can try and fix my code if it isn't working property.
Curriculum Narrative Previous Learning	Children would have been exposed to a rang forms of digital technology and some subject	e of technology b specific vocabula	oth in school and at home. Pupils will be familiar with different ry.	 I can say that if something does not work how it should it is because my code is incorrect.

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 1 Summer Term Unit 1.8 Spreadsheets Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can name my work. I can find my work. I can save my work. I can keep my login information safe. I can save my work in a safe place such as 'My Work' folder. I can change content on a file such as text, sound and images.
Curriculum Narrative Previous Learning	Children would have been exposed to a ra forms of digital technology and some sub	ange of technology both in s ject specific vocabulary.	chool and at home. Pupils will be familiar with different	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
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Year 1 Summer Term Unit 1.9 Technology outside school Area of Computing: Digital Literacy	Recognise common uses of information technology beyond school	Recognise uses of IT outside of school.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can say what technology is. I can say what examples of technology are in school. I can say what examples of technology are at home. I know that a chair uses old technology and a smart phone uses new technology. I can save my work in a safe place such as 'My Work' folder. I can keep my login information safe
Curriculum Narrative Previous Learning	Children would have been exposed to a range forms of digital technology and some subject	of technology b specific vocabula	oth in school and at home. Pupils will be familiar with different ary.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 2 Autumn Unit 2.1 Coding Area of Computi ng: Comput er 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.	Understand use of algorithms. Design, write and test programs to achieve goals, including solving problems.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I understand that my creations such as programs in 2Code, need similar skills to the adult world. E.g. The program used for collecting money for school trips.

		Use logical reasoning to make predictions.	
Curricul	Previous Learning- Unit 1.7 Coding, Unit 1.5 Maze	e Explorers, 1.4	Lego Builders, Unit 1.2 Grouping and sorting
um	Children understand that an algorithm is a set of instructions used to solve a problem or achieve an objective. They know that an		
Narrativ	algorithm written for a computer is called a program. Children can work out what is wrong with a simple algorithm when the		
е	steps are out of order, e.g. The Wrong Sandwich in Purple Mash and can write their own simple algorithm, e.g. Colouring in a		
	Bird activity. Children know that an unexpected outcome is due to the code they have created and can make logical attempts to		
	fix the code, e.g. Bubbles activity in 2Code. When looking at a program, children can read code one line at a time and make good		
	attempts to envision the bigger picture of the ove	rall effect of the	e program. Children can, for example, interpret where the turtle
	in 2Go challenges will end up at the end of the pro-	ogram	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 2 Autumn Unit 2.2 Online Safety Area of Computing: 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.	Use and communic ate online safely and respectfull y.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence I can name, save and find my work. I can see where technology is used at school such as in the office or canteen. I can report unkind behaviour and things that upset me online, to a trusted adult. I can share work and communicate electronically – for example using 2Email or the display boards. I know the consequences of not searching online safely.
Curriculum Narrative Previous Learning	Previous Learning Unit 1.1 Safety & Exploring Children understand the importance of keepin demonstrate this in lessons. Children take ow Work folder on Purple Mash	g Purple Mash ng informatior nership of the	n, such as their usernames and passwords, private and actively ir work and save this in their own private space such as their My	

Term and	NC objectives	The Pig Idea	How will I think and act like a Computer Scientist	Bunil Outcomos
Focus	Pupils should be taught about:	The big fued	How will I think and act like a computer scientist	Pupil Outcomes

				Computing knowledge and understanding
Year 2 Spring Term Unit 2.3 Spreadsheets Area of Computing: Information technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I can organise data – for example, using a database such as 2Investigate.
Curriculum Narrative	Previous Learning Unit 1.8 Spreadsheets Children are able to sort, collate, edit and follow simple instructions to access onlin (manipulating backgrounds) or using pict	l store simple digital conten e resources, use Purple Mas ogram software such as 2Cc	t e.g. children can name, save and retrieve their work and sh 2Quiz example (sorting shapes), 2Code design mode punt.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 2 Spring Term Unit 2.4 Questioning Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I can share work and communicate electronically – for example using 2Email or the display boards. I can use several programs to organise information – for example, using binary trees such as 2Question or spreadsheets such as 2Calculate
Curriculum Narrative	Previous Learning Children are able to sort, collate, edit and follow simple instructions to access onlin (manipulating backgrounds) or using pict	l store simple digital conten e resources, use Purple Mas ogram software such as 2Co	t e.g. children can name, save and retrieve their work and h 2Quiz example (sorting shapes), 2Code design mode unt.	 I can find data using specific searches – for example, using 2Investigate.

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 2 Spring Term Unit 2.5 Effective Searching Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content Recognise common uses of information technology beyond school.	Use and communicate online safely and respectfully.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I can share work and communicate electronically – for example using 2Email or the display boards. I know the consequences of not searching online safely. I can find information I need using a search engine. L can find data using specific searches
Curriculum Narrative	Previous Learning Children are able to sort, collate, edit and stor and follow simple instructions to access onlir mode (manipulating backgrounds) or using p technology and can identify a variety of exam that use modern technology and those that c	re simple digital ne resources, use ictogram softwa nples both in and lo not e.g. a micr	content e.g. children can name, save and retrieve their work Purple Mash 2Quiz example (sorting shapes), 2Code design re such as 2Count. Children understand what is meant by out of school. They can make a distinction between objects owave vs. a chair	– for example, using 2Investigate.

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 2 Summer Unit 2.6 Creating Pictures Area of Computing:	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I can share work and communicate electronically – for example using 2Email or the display boards.

Information		Begin to explore editing code.	-	I can include photos, text and sound in
technology				my creations.
Curriculum	Previous Learning			
Narrative	Children are able to sort, collate, edit and stor			
	and follow simple instructions to access online			
	mode (manipulating backgrounds) or using pic			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 2 Summer Unit 2.7 Making Music Area of Computing: Information Technology	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Organise, store, retrieve, manipulate and present data.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work. I can share work and communicate electronically – for example using 2Email or the display boards.
Curriculum Narrative	Previous Learning Children are able to sort, collate, edit and stor and follow simple instructions to access onlin- mode (manipulating backgrounds) or using pi			

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 2 Summer Unit 2.8	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Understand use of algorithms. Organise, store,	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology 	 I can edit digital data such as data in music composition software like 2Sequence. I can name, save and find my work.

Writing and Presenting Ideas Area of Computing: Information Technology		retrieve, manipulate and present data.	 Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. 	 I can share work and communicate electronically – for example using 2Email or the display boards. I can include photos, text and sound in my creations. I can use several programs to organise information – for example, using binary trees such as 2Question or spreadsheets such as 2Calculate.
Curriculum	Previous Learning			•
Narrative	Children are able to sort, collate, edit and stor			
	and follow simple instructions to access online mode (manipulating backgrounds) or using pic			

Key Stage Two

Computing National Curriculum Expectations Key stage 2		Year 3			Year 4		Year 5		Year 6		i	
	Aut	Spr	Sum	Aut	Spr	Sum	Aut	Spr	Sum	Aut	Spr	Sum
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												
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.												
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 acceptable/unacceptable behaviour;												
identify a range of ways to report concerns about content and contact.												

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea	How with I think and act like a computer scientist	Computing knowledge and understanding
Year 3 Autumn Unit 3.1 Coding Area of Computing: 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	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make a real-life situation into an algorithm for a program. I can design an algorithm carefully, thinking about what I want it to do and how I can turn it into code. I can identify an error in my program and fix it. I can experiment with timers in my programs. I can identify the difference in using between the effect of a timer or repeat command in my code. I know that a variable stores information while a program is running (executing). I can identify 'If' statements, repetition and variables. I can read programs with several steps and predict what it will do
Curriculum	Previous Learning			- I can consider what the most
Narrative	Children can explain that an algorithm is a set	of instruction	s to complete a task. When designing simple programs, children	appropriate software to use when
	show an awareness of the need to be precise	with their algo	prithms so that they can be successfully converted into code.	given a task by my teacher
	Children can create a simple program that ach	nieves a specif	ic purpose. They can also identify and correct some errors, e.g.	- I can carry out searches to find
	steps. Children can identify the parts of a program	ram that resr	ay a growing awareness of the need for logical, programmable	online systems, such as within
	they can write a cause and effect sentence of	what will hap	pen in a program	Purple Mash or on an internet
				search engine.

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 3 Autumn Unit 3.2 Online Safety Area of Computi ng: Digital Literacy	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use and communic ate online safely and respectfull y	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can create a secure password. I can explain the importance of having a secure password and not sharing it with others. I can explain the negative consequences of not keeping passwords safe and secure. I understand the importance of keeping safe online and behaving respectfully. I can use communication tools such as 2Email respectfully and use good etiquette.
Curriculu m Narrativ e	Previous Learning Children understand the importance of keeping in demonstrate this in lessons. Children take owners Work folder on Purple Mash. Children know the implications of inappropriate of electronically such as posting work to the Purple using 2Respond activities on Purple Mash and know	nformation, su ship of their w online searche Mash display b ow ways of rep	ch as their usernames and passwords, private and actively ork and save this in their own private space such as their My s. Children begin to understand how things are shared board. They develop an understanding of using email safely by borting inappropriate behaviours and content to a trusted adult.	 I can report unacceptable content and contact online in more than one way to a trusted adult. I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine.

Term and	NC objectives	The Big	Here will takink and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea	How with think and act like a computer scientist	Computing knowledge and understanding

Year 3 Autumn Unit 3.3 Spreadsheets Area of Computing: 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	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I can collect data and input it into software. I can analyse data using features within software to help such as, formula in 2Calculate (spreadsheets). I can present data and information using different software such as
Curriculum Narrative	Previous Learning Children are able to sort, collate, edit and st and follow simple instructions to access onl mode (manipulating backgrounds) or using organise data using, for example, a databas searches. Children are able to edit more cor confident when creating, naming, saving an including photos, text and sound.	ore simple dig ine resources, pictogram soft e such as 21nv nplex digital d d retrieving co	ital content e.g. children can name, save and retrieve their work use Purple Mash 2Quiz example (sorting shapes), 2Code design ware such as 2Count. Children demonstrate an ability to esitigate and can retrieve specific data for conducting simple ata such as music compositions within 2Sequence. Children are ntent. Children use a range of media in their digital content	 2Question (branching database) or 2Graph (graphing tool). I can consider what the most appropriate software to use when given a task by my teacher. I can create purposeful (appropriate) content and attach this to emails.

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 3 Spring Unit 3.4 Touch Typing Area of Computing: 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	Understan d computer networks. Design, write and test programs to achieve goals including	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I know what is meant by the home, bottom and top rows. I know and understand the names of the fingers.

		solving problems.		_	I can use two hands to type the letters on the keyboard. I can touch type using both left and right hands.
Curriculum	Previous Learning				
Narrative	Children are able to sort, collate, edit and stor	e simple digit	al content e.g. children can name, save and retrieve their work		
	mode (manipulating backgrounds) or using pid	togram softw	vare such as 2Count. Children demonstrate an ability to organise		
	data using, for example, a database such as 21	d can retrieve specific data for conducting simple searches.			
	Children are able to edit more complex digital	music compositions within 2Sequence. Children are confident			
	when creating, naming, saving and retrieving on photos, text and sound.	content. Child	ren use a range of media in their digital content including		

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 3 Spring Unit 3.5 Email and email safety Area of Computi ng:	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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use and communic ate online safely and respectfull y Recognise uses of IT outside of school	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I can create purposeful (appropriate) content and attach this to emails.

Digital	Understand computer networks, including the			-	I can use communication tools		
Literacy	Internet; how they can provide multiple				such as 2Email respectfully and		
	services, such as the World Wide Web; and the				use good etiquette.		
	opportunities they offer for communication			-	I can explain the negative		
	and collaboration.				consequences of not keeping		
					passwords safe and secure.		
				-	I can explain the importance of		
					having a secure password and not		
					sharing it with others.		
				-	I can list a range of different ways		
					to communicate.		
				-	I can read and respond to a series		
					of email communications		
Curriculu	Previous Learning						
m	Children are able to sort, collate, edit and store sir	mple digital c	ontent e.g. children can name, save and retrieve their work and				
Narrativ	follow simple instructions to access online resource	ces, use Purpl	e Mash 2Quiz example (sorting shapes), 2Code design mode				
е	(manipulating backgrounds) or using pictogram software such as 2Count. Children demonstrate an ability to organise data						
	using, for example, a database such as 2Invesitigate and can retrieve specific data for conducting simple searches. Children are						
	able to edit more complex digital data such as music compositions within 2Sequence. Children are confident when creating,						
	naming, saving and retrieving content. Children use a range of media in their digital content including photos, text and sound.						
	Children know the implications of inappropriate online searches. Children begin to understand how things are shared						
	electronically such as posting work to the Purple N	Aash display	board. They develop an understanding of using email safely by				
	using 2Respond activities on Purple Mash and kno	w ways of re	porting inappropriate behaviours and content to a trusted adult.				

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Year 3 Summer Unit 3.6 Branching Databases Area of Computing: 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.	Use logical reasoning to make predictions Understan d computer networks	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I can collect data and input it into software I can analyse data using features within software to help such as,

Curriculum	Previous Learning		formula in 2Calculate
Narrative	Children understand the function, features and layout of a search engine. They can appraise selected webpages for credibility and information at a basic level Children are able to make improvements to digital solutions based on feedback. Children make informed software choices when presenting information and data. They create linked content using a range	-	(spreadsheets). I can present data and information using different software such as
	of software such as 2Connect and 2Publish+. Children share digital content within their community, i.e. using Virtual Display Boards.	_	2Question (branching database) or 2Graph (graphing tool). I can create purposeful (appropriate) content and attach this to emails.

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes		
Focus	Pupils should be taught about:	Idea	now with think and act like a computer Scientist	Computing knowledge and understanding		
Year 3 Summer Unit 3.7 Simulations Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I know that a computer simulation can represent real and imaginary situations. I can give suggestions of advantages and problems of 		
Curriculum Narrative	Previous Learning Children understand the function, features an credibility and information at a basic level C Children make informed software choices wh of software such as 2Connect and 2Publish+. Boards.	nd layout of a s hildren are ab en presenting Children share	earch engine. They can appraise selected webpages for le to make improvements to digital solutions based on feedback. information and data. They create linked content using a range digital content within their community, i.e. using Virtual Display	simulations. – I can begin to evaluate simulation by comparing them with real situations and considering their usefulness. – I can identify the relationships ar rules on which the simulations ar based		

Focus Pupils should be taught about: I dea How will I think and act like a Computer Scientist Computing knowledge and unders	Term and Focus
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Year 3 Summer Unit 3.8 Graphing Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can consider what the most appropriate software to use when given a task by my teacher I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. I can collect data and input it into software I can analyse data using features within software to help such as, formula in 2Calculate
Curriculum Narrative	Previous Learning Children understand the function features ar	d lavout of a s	earch engine. They can appraise selected webnages for	(spreadsheets).
	credibility and information at a basic level C Children make informed software choices wh of software such as 2Connect and 2Publish+. Boards.	 I can present data and information using different software such as 2Question (branching database) or 2Graph (graphing tool). I can create purposeful (appropriate) content and attach this to emails. 		

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils siloulu be taugitt about.	iuca		computing knowledge and understanding

Year 4 Autumn Unit 4.1 Coding Area of Computi ng: Compute r 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. 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.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	_	I can turn a real-life situation to solve into an algorithm, using a design that shows how I can accomplish this in code I can use repetition in my code. For example, using a loop that continues until a condition is met such as the correct answer being entered. I can use timers within my program designs more accurately to create repetition effects. For example, I can create a counting machine. I can use selection (decision) in my programming. For example, using an 'if statement' for a question being asked and the program takes one of two paths.	
e	Children can turn a simple real-life situation into design shows that they are thinking of the desired their program that prevents it following the desir code a program that follows a simple sequence. T Children are beginning to understand the differer when creating repetition effects. Children unders executing. Children's designs for their programs s steps and absorbing some new knowledge of cod make good attempts to 'step through' more com traffic light algorithm in 2Code. In programs such accurately. Children can list a range of ways that can use some of these methods of communicatio They can describe appropriate email conventions	an algorithm f d task and hov ed algorithm a hey experime nce in the effe tand how vari how that they ing structures plex code in o as Logo, they the internet ca n, e.g. being a when commu	or a program by deconstructing it into manageable parts. Their v this translates into code. Children can identify an error within and then fix it. Children demonstrate the ability to design and nt with timers to achieve repetition effects in their programs. ct of using a timer command rather than a repeat command ables can be used to store information while a program is are thinking of the structure of a program in logical, achievable . For example, 'if' statements, repetition and variables. They rder to identify errors in algorithms and can correct this. e.g. can 'read' programs with several steps and predict the outcome on be used to provide different methods of communication. They ble to open, respond to and attach files to emails using 2Email. nicating in this way	-	 the value of variables. I can use the user inputs and output features within my program, such as 'Print to screen'. I can identify errors in my code by using different methods, such as steeping through lines of code and fixing them. I can read programs that contain several steps and predict the outcomes with increasing accuracy. I can review solutions that others have created, using a checklist of criteria. I can work collaboratively to create content and solutions. 	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 4 Autumn Unit 4.2 Online Safety Area of Computing: Digital Literacy	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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use and communic ate online safely and respectfull y	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I have a good understanding of the online safety rules we learn at school I can demonstrate how to use different online technologies safely. I can demonstrate how to use a few different online services safely I know I have a right to privacy both on and offline. I recognise that my wellbeing can be affected by how I use technology
Curriculum Narrative	Previous Learning Children can list a range of ways that the inte some of these methods of communication, e. can describe appropriate email conventions w Children demonstrate the importance of havi children can explain the negative implications importance of staying safe and the importance Purple Mash. They know more than one way	rnet can be us g. being able t when commun ng a secure pa of failure to k e of their cond to report unac	ed to provide different methods of communication. They can use o open, respond to and attach files to emails using 2Email. They icating in this way. ssword and not sharing this with anyone else. Furthermore, eep passwords safe and secure. They understand the duct when using familiar communication tools such as 2Email in ceptable content and contact.	 I can report with ease any concerns with content and contact online and know immediate strategies to keep safe. I can create and improve my solutions to a problem based on feedback. For example, create a program using 2Code. I can review solutions that others have created, using a checklist of criteria. I understand that network and communication components can be found in many different devices which allow them to join the internet.

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding

Year 4 Spring Unit 4.3 Spreadsheets Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can work collaboratively to create content and solutions. - 		
Curriculum	Previous Learning					
Narrative	Children can collect, analyse, evaluate and present data and information using a selection of software, e.g. using a					
	branching database (2Question), using software such as 2Graph. Children can consider what software is most appropriate					
	i or a given task. They can create purposeful	content to att	ch to emails, e.g. zkespona.			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 4 Spring Unit 4.4 Writing for different audiences Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can work collaboratively to create content and solutions.
Curriculum Narrative	<u>Previous Learning</u> Children can collect, analyse, evaluate and pre database (2Question), using software such as task. They can create purposeful content to at			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 4 Spring Unit 4.8 Hardware Investigators Area of Computing: 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.	Use logical reasoning to make predictions Understan d computer networks	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I recognise the main component parts of hardware which allow computers to join and form a network. I understand that network and communication components can be found in many different devices which allow them to join the internet. I can work collaboratively to create content and solutions.
Curriculum Narrative	Previous Learning Children can list a range of ways that the int use some of these methods of communicati They can describe appropriate email conver			

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 4 Summer Unit 4.5 Logo Area of Computing: 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	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can read programs that contain several steps and predict the outcomes with increasing accuracy. I can turn a real-life situation to solve into an algorithm, using a design that shows how I can accomplish this in code

		to make predictions		
Curriculum Narrative	Previous Learning Children can turn a simple real-life situation in Their design shows that they are thinking of th within their program that prevents it following design and code a program that follows a simulation their programs. Children are beginning to und repeat command when creating repetition eff while a program is executing. Children's desig in logical, achievable steps and absorbing som and variables. They make good attempts to 's can correct this, on traffic light algorithm in	nto an algorith ne desired tasi g the desired a ple sequence. erstand the d fects. Children ns for their pr he new knowle tep through' n	m for a program by deconstructing it into manageable parts. k and how this translates into code. Children can identify an error algorithm and then fix it. Children demonstrate the ability to They experiment with timers to achieve repetition effects in ifference in the effect of using a timer command rather than a understand how variables can be used to store information ograms show that they are thinking of the structure of a program edge of coding structures. For example, 'if' statements, repetition more complex code in order to identify errors in algorithms and	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea	How will I think and act like a computer scientist	Computing knowledge and understanding

Year 4 Summer Unit 4.6 Animation Area of Computing: 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	Design, write and test programs t o achieve goals, including solving problems.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 		
Curriculum	Previous Learning				
Narrative	Children can collect, analyse, evaluate and present data and information using a selection of software, e.g. using a branching				
	database (2Question), using software such as	2Graph. Child	ren can consider what software is most appropriate for a given		
	task. They can create purposeful content to at	ttach to email	s, e.g. 2Respond.		

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 4 Summer Unit 4.7 Effective Search Area of Computing: Information Technology	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I understand that network and communication components can be found in many different devices which allow them to join the internet. I understand the purpose of a search engine and the main features within it. I can look at information on a webpage and make predictions about the accuracy of information contained within it.
Curriculum Narrative	Previous Learning Children can carry out simple searches to retr the internet and using a search engine such as	ieve digital co s Purple Mash	ntent. They understand that to do this, they are connecting to search or internet-wide search engines.	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea	How will I tilling and act like a computer scientist	Computing knowledge and understanding
Year 5 Autumn Unit 5.1 Coding Area of Computing: 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. 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.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make more complex real-life problems into algorithms for a program. I can test and debug my programs as I work. I can convert (translate) algorithms that contain sequence, selection and repetition into code that works. I can use sequence, selection, repetition, and some other coding structures in my code. I can organise my code carefully for example, naming variables and using tabs. I know this will help me debug more efficiently. I can use logical methods to identify the cause of any bug with support to identify the specific line of code.
Curriculum	Previous Learning		I	
Narrative	. When turning a real-life situation into an alg and how to accomplish this in code using codi attempts to debug their own programs. Childr are integrated into their program designs. The other coding structures including variables to understanding how variables can be used to s manipulate the value of variables. Children ca Children's designs for their programs show the and absorbing some new knowledge of coding trace code and use step through methods to i light algorithm in 2Code. In programs such as accurately. Children recognise the main comp Their ability to understand the online safety ir different methods of communication is impro			

Term and Focus	NC objectives Pupils should be taught about:	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Year 5 Autumn Unit 5.2 Online Safety Area of Computing: Digital Literacy	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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Use and communic ate online safely and respectfull y	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I know the importance of computer networks and how they help solve problems and enhance communications. I recognise the main dangers that can be perpetuated via computer networks. I can explain what personal information is and know strategies for keeping this safe. I can use the most appropriate form of online communication according to the digital content.
Curriculum Narrative	Children recognise the main component parts to understand the online safety implications a of communication is improving. Children can explore key concepts relating to to understand the importance of online safety contact.	s of hardware associated with online safety y. Children kno	which allow computers to join and form a network. Their ability in the ways the internet can be used to provide different methods using concept mapping such as 2Connect. They can help others ow a range of ways of reporting inappropriate content and	 For example, use 2Email, 2Blog and Display Boards. I can search precisely when using a search engine. For example, I know I can add additional words or removes words to help find better results. I can explain in detail how accurate, safe and reliable the content is on a webpage. I have a secure knowledge of online safety rules taught at school. I can demonstrate the safe and respectful use of different online technologies and online services. I always relate appropriate online behaviour to my right to have personal privacy. I know how to not let my mental wellbeing or others be affected by use of online technologies and services.

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 5 Spring Unit 5.3 Spreadsheets Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make appropriate improvements to digital work I have created. I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code.
Curriculum Narrative	Previous Learning . Children are able to make improvements t choices when presenting information and d 2Publish+. Children share digital content with	o digital solutio ata. They creat thin their com	ons based on feedback. Children make informed software te linked content using a range of software such as 2Connect and nunity, i.e. using Virtual Display Boards.	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 5 Spring Unit 5.4 Databases Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make appropriate improvements to digital work I have created. I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code.

Curriculum	Previous Learning	
Narrative	. Children are able to make improvements to digital solutions based on feedback. Children make informed software	
	choices when presenting information and data. They create linked content using a range of software such as 2Connect and	
	2Publish+. Children share digital content within their community, i.e. using Virtual Display Boards.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 5 Summer Unit 5.5 Game Creator Area of Computing: 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. 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.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can test and debug my programs as I work. I can make appropriate improvements to digital work I have created. I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code.
Curriculum Narrative	Previous Learning When turning a real-life situation into an alg and how to accomplish this in code using co attempts to debug their own programs. Children are able to make improvements to when presenting information and data. The 2Publish+. Children share digital content wir			

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 5 Summer Unit 5.6 3D Modelling Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make appropriate improvements to digital work I have created. I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code.
Curriculum Narrative	Previous Learning . Children are able to make improvements to when presenting information and data. They 2Publish+. Children share digital content with	digital solutior create linked c in their comm	ns based on feedback. Children make informed software choices ontent using a range of software such as 2Connect and unity, i.e. using Virtual Display Boards.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 5 Summer Unit 5.7 Concept Maps Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can make appropriate improvements to digital work I have created. I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code.
Curriculum Narrative	Previous Learning . Children are able to make improvements to when presenting information and data. They 2Publish+. Children share digital content with	digital solution create linked o in their comm	ns based on feedback. Children make informed software choices content using a range of software such as 2Connect and unity, i.e. using Virtual Display Boards.	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea	now with think and act like a computer scientist	Computing knowledge and understanding
Year 6 Autumn Unit 6.1 Coding Area of Computing: 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. 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 procenting data and information	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can turn a complex programming task into an algorithm. I can identify the important aspects of a programming task (abstraction). I can decompose important aspects of a programming task in a logical way, identifying appropriate coding structures that would work. I can test and debug my program as I work on it and use logical methods to identify a cause of a bug. I can identify a specific line of code that is causing a problem in my program and attempt a fix. I can translate algorithms that include sequence, selection and repetition into code and nest
Curriculum Narrative	Previous Learning Children may attempt to turn more complex r manageable parts. Children are able to test ar approximate cause of any bug but may need s algorithms that include sequence, selection an they are thinking of how to accomplish the se and repetition with other coding structures to think about their code structure in terms of th code and the naming of variables. Children are feedback received and can confidently common design brief using 2Code. They objectively rev and solutions using digital features within soft digital content, i.e. 2Blog, Display Boards and	eal-life situation d debug their some support nd repetition i t task in code o achieve their ne ability to de e able to make ent on the suc iew solutions cware such as 2Email.	ons into algorithms for a program by deconstructing it into programs as they go and can use logical methods to identify the identifying the specific line of code. Children can translate into code with increasing ease and their own designs show that utilising such structures. They are combining sequence, selection algorithm design. When children code, they are beginning to bug and interpret the code later, e.g. the use of tabs to organise e appropriate improvements to digital solutions based on cess of the solution. e.g. creating their own program to meet a from others. Children are able to collaboratively create content collaborative mode. They are able to use several ways of sharing	 other. I can use inputs and outputs within my coded programs such as sound, movement and buttons and represent the state of an object I can interpret (understand) a program in parts and can make logical attempts to put the separate parts together in an algorithm to explain the program as a whole.

	 I can compare a range of digital content sources and rate them in
	terms of content quality and
	accuracy.
	 I can consider the intended audience carefully when I design and make digital content.
	 I can use criteria to evaluate the quality of my own and others digital solutions, suggesting
	refinements

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 6 Autumn Unit 6.2 Online Safety Area of Computing: Digital Literacy	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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions Use and communic ate online safely and	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can demonstrate safe and respectful use of a range of different technologies and online services. I can identify more discrete inappropriate behaviours online. For example, someone who may be trying to groom me or someone else. I can use critical thinking to help me stay safe online. I can use critical thinking to help me stay safe online. I know the value of protecting my privacy and others online. I can use filters when searching for digital content. I can explain in detail how accurate and reliable a webpage and its content is. I can explain the difference between the internet and the World Wide Web. I can explain what a WAN and LAN is and describe the process of how

		respectfull y		access to the internet in school is possible.
Curriculum Narrative	Previous Learning Children understand the value of computer nei information is and can explain how this can be communications contingent on audience and complexity for digital content when using a se and the information it contains. Children have demonstrating the safe and respectful use of a appropriate online b	etworks but ar e kept safe. Ch digital conten arch engine. T a secure know a few differen	re also aware of the main dangers. They recognise what personal hildren can select the most appropriate form of online t, e.g. 2Blog, 2Email, Display Boards. Children search with greater They are able to explain in some detail how credible a webpage is wledge of common online safety rules and can apply this by t technologies and online services. Children implicitly relate	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 6 Autumn Unit 6.3 Spreadsheet s Area of Computing: 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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can compare a range of digital content sources and rate them in terms of content quality and accuracy. I can consider the intended audience carefully when I design and make digital content. I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements.

Curriculum	Previous Learning	
Narrative	Children are able to make appropriate improvements to digital solutions based on feedback received and can confidently	
	comment on the success of the solution. e.g. creating their own program to meet a design brief using 2Code. They	
	objectively review solutions from others. Children are able to collaboratively create content and solutions using digital	
	features within software such as collaborative mode. They are able to use several ways of sharing digital content, i.e. 2Blog,	
	Display Boards and 2Email.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 6 Spring Unit 6.4 Blogging Area of Computing: Information Technology	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. 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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Understan d computer networks Use and communic ate online safely and respectfull y	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I know the value of protecting my privacy and others online. I can demonstrate safe and respectful use of a range of different technologies and online services. I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements. I can design and create my own online blogs. I can consider the intended audience carefully when I design and make digital content. I can compare a range of digital content sources and rate them in terms of content quality and
Curriculum Narrative	Previous Learning Children understand the value of computer nuinformation is and can explain how this can be communications contingent on audience and Children are able to make appropriate improvision comment on the success of the solution. e.g. objectively review solutions from others. Child features within software such as collaborative Display Boards and 2Email.	etworks but a e kept safe. Ch digital conten vements to dig creating their dren are able e mode. They a	re also aware of the main dangers. They recognise what personal hildren can select the most appropriate form of online t, e.g. 2Blog, 2Email, Display Boards. hital solutions based on feedback received and can confidently own program to meet a design brief using 2Code. They to collaboratively create content and solutions using digital are able to use several ways of sharing digital content, i.e. 2Blog,	 I can explain the difference between the internet and the World Wide Web.

Children have a secure knowledge of common online safety rules and can apply this by demonstrating the safe and	
respectful use of a few different technologies and online services. Children implicitly relate appropriate online behaviour to	
their right to personal privacy and mental wellbeing of themselves and others.	

Term and	NC objectives Pupils should be taught about:	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Year 6 Spring Unit 6.9 Spreadsheet s (With Excel or Googlesheet s) Area of Computing: Information Technology	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. 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.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems. Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can use filters when searching for digital content. I can compare a range of digital content sources and rate them in terms of content quality and accuracy. I can consider the intended audience carefully when I design and make digital content. I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements.
Curriculum Narrative	Previous Learning Children may attempt to turn more complex manageable parts. Children are able to test a approximate cause of any bug but may need are beginning to think about their code struct tabs to organise code and the naming of varia search engine. They are able to explain in son Children have a secure knowledge of commo respectful use of a few different technologies their right to personal privacy and mental we	real-life situati nd debug their some support cure in terms of ables. Children ne detail how n online safety and online se llbeing of ther	ons into algorithms for a program by deconstructing it into programs as they go and can use logical methods to identify the identifying the specific line of code. When children code, they if the ability to debug and interpret the code later, e.g. the use of search with greater complexity for digital content when using a credible a webpage is and the information it contains. rules and can apply this by demonstrating the safe and rvices. Children implicitly relate appropriate online behaviour to nselves and others.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 6 Spring Unit 6.6 Networks Area of Computing: 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.	Understan d computer networks	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can explain what a WAN and LAN is and describe the process of how access to the internet in school is possible. I can explain the difference between the internet and the World Wide Web
Curriculum Narrative	<u>Previous Learning</u> Children understand the value of computer no information is and can explain how this can be communications contingent on audience and	etworks but ar e kept safe. Ch digital conten	e also aware of the main dangers. They recognise what personal ildren can select the most appropriate form of online	

Term and	NC objectives	The Big	How will I think and act like a Computer Scientist	Pupil Outcomes
Focus	Pupils should be taught about:	Idea		Computing knowledge and understanding
Year 6 Summer Unit 6.8 Coding - Understandi ng Binary Area of Computing: 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.	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can explain how binary relates to computer memory. I can write the numbers 0 to 10 using binary. I know Machine code is the code that signals to a computer which transistors should be on or off. I know machine code is written in binary.

	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.	Use logical reasoning to make predictions Organise, store, retrieve, m anipulate a nd present da	
Curriculum	Previous Learning	present da ta	
Narrative	Children have gained experience coding but the	nis is their first time looking at binary code.	

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 6 Summer Unit 6.5 Text Adventu re Area of Computi ng: Compute r 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. Select, use and combine a variety of software (including internet services) on a range of	Understan d use of algorithms Design, write and test programs t o achieve goals, including solving problems.	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements. I can consider the intended audience carefully when I design and make digital content. I can compare a range of digital content sources and rate them in terms of content quality and accuracy.

	digital devices to design and create a range of	Use logical				
	programs, systems and content that accomplish	reasoning				
ļ	given goals, including collecting, analysing,	to make				
ļ	evaluating and presenting data and	predictions				
ļ	information.					
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Curriculu	Previous Learning	11				
m	Children may attempt to turn more complex real-	-life situations in	to algorithms for a program by deconstructing it into			
Narrativ	manageable parts. Children are able to test and debug their programs as they go and can use logical methods to identify the					
е	approximate cause of any bug but may need som	e support identi	fying the specific line of code. Children can translate			
	algorithms that include sequence, selection and r	epetition into cc	ode with increasing ease and their own designs show that they			
	are thinking of how to accomplish the set task in	code utilising su	ch structures. They are combining sequence, selection and			
	repetition with other coding structures to achieve	e their algorithm	design. When children code, they are beginning to think			
	about their code structure in terms of the ability					
1	the naming of variables. Children are able to mak					
	and can confidently comment on the success of t		2Code. They objectively review solutions from others. Children are able to collaboratively create content and solutions using			
	and can confidently comment on the success of t 2Code. They objectively review solutions from of	hers. Children an	e able to collaboratively create content and solutions using			
	and can confidently comment on the success of t 2Code. They objectively review solutions from ot digital features within software such as collabora	hers. Children ar tive mode. They	e able to collaboratively create content and solutions using are able to use several ways of sharing digital content i.e.			
	about their code structure in terms of the ability the naming of variables. Children are able to mak					

Term and Focus	NC objectives Pupils should be taught about:	The Big Idea	How will I think and act like a Computer Scientist	Pupil Outcomes Computing knowledge and understanding
Year 6 Summer Unit 6.7 Quizzing Area of Computing : Informatio n technolog Y	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.	Organise, store, retrieve, m anipulate a nd present da ta Use logical reasoning to make predictions	 Use of subject specific vocabulary. Use and access digital technology of different forms i.e. iPads, Chromebooks and laptops. Ask relevant questions about the use of digital technology Recall instructions using the correct sequence and vocabulary Describe what I notice about the learning taking place. Begin to explore editing code. Contribute to the class blog, reflecting and evaluating work. 	 I can use inputs and outputs within my coded programs such as sound, movement and buttons and represent the state of an object. I can compare a range of digital content sources and rate them in terms of content quality and accuracy. I can consider the intended audience carefully when I design and make digital content. I can use criteria to evaluate the guality of my own and others
Curriculu m Narrative	Previous Learning Children are able to make appropriate improver comment on the success of the solution. e.g. cre review solutions from others. Children are able software such as collaborative mode. They are a and 2Email.	digital solutions, suggesting refinements.		