<b>V1</b>	Com	puting
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Online Safety							
	Autumn One (4 lessons)						
		information priv logies.	vate; identify who WORDS m that lets you ve something tal picture to	<ul> <li>ere to go for help and support when they have concerns about</li> <li>Key Knowledge</li> <li>By the end of this unit, the pupils should know how: <ul> <li>To log in safely.</li> <li>To learn how to find saved work in the Online Work area and find teacher comments.</li> <li>To learn how to search.</li> <li>To become familiar with the icons and types of resources available in the Topics section.</li> <li>To start to add pictures and text to work.</li> <li>To learn how to open, save and print.</li> </ul> </li> <li>To understand the importance of logging out.</li> </ul>			
				ward" (future years/cross curricular content)			
		Year 3 – Online Year 4 – Online Year 5 – Online	e Safety, Effective Searching e Safety, Email e Safety, Effective Searching e Safety, Word Processing e Safety, Blogging				

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	Grouping and Sorting				
		Autumn 2 (	2/3 lessons)		
<b>Statutory NC Objectives</b>					
<ul> <li>use technology put</li> </ul>	rposefully to create, organis	se, store, manipulate and re			
	Key Vocabulary		Key Knowledge		
ANCHOR WORDS	GOLDILOCKS WORDS	STEP-ON WORDS	By the end of this unit, the pupils should know how:		
<b>Sort</b> - Put things together by features they have in common.	<b>Groups</b> - Objects arranged and put together because they have features in common.	<b>Criteria</b> - A way in which something is judged.	<ul> <li>To sort items using a range of criteria.</li> <li>To sort items on the computer using the 'Grouping' activities.</li> </ul>		
"Bridging Back" (previou	is years/cross-curricular co	ntent)	"Bridging Forward" (future years/cross curricular content)		
			Year 2 – Questioning Year 3 – Branching Databases, Graphing Year 5 – Databases		

Pictograms				
		Spring 2	(3 lessons)	
Statutory NC Objectives KS1 Computing: recognise common uses of information technology beyond school				
	Key Vocabulary		Key Knowledge	
ANCHOR WORDS	GOLDILOCKS WORDS	STEP-ON WORDS	By the end of this unit, the pupils should know how:	
<b>Compare</b> - Looking at what is the same and what is different. Title - The name given to a piece of work.	Data - A collection of information, used to help answer questions. Pictogram - A diagram that uses pictures to represent data. Record Results - Writing down what you have found out.	<b>Collect Data -</b> Gathering facts and information.	<ul> <li>To understand that data can be represented in picture format.</li> <li>To contribute to a class pictogram.</li> <li>To use a pictogram to record the results of an experiment.</li> </ul>	
"Bridging Back" (previou	s years/cross-curricular co	ntent)	"Bridging Forward" (future years/cross curricular content)	
			Year 2 – Spreadsheets, Questioning Year 3 – Spreadsheets, Branching Databases, Graphing Year 4 – Spreadsheets Year 5 – Databases Year 6 - Spreadsheets	

Lego Builders						
	Summer 1 (3 lessons)					
<ul> <li>understand what a unambiguous inst</li> </ul>	<ul> <li>Statutory NC Objectives KS1 Computing:         <ul> <li>understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>create and debug simple programs</li> </ul> </li> </ul>					
	Key Vocabulary		Key Knowledge			
ANCHOR WORDS Computer - An electronic device for storing and processing data. Instructions - Detailed information about how	<b>GOLDILOCKS WORDS</b> <b>Code</b> - Instructions that a programmer enters into a computer that cause the computer to perform a certain way. <b>Debugging</b> - To find and	<b>STEP-ON WORDS</b> <b>Algorithm</b> - A precise, step-by-step set of instructions used to solve a problem or achieve an objective.	<ul> <li>By the end of this unit, the pupils should know how:</li> <li>To compare the effects of adhering strictly to instructions to completing tasks without complete instructions.</li> <li>To follow and create simple instructions on the computer.</li> <li>To consider how the order of instructions affects the result.</li> </ul>			
something should be done or operated.	remove errors from computer hardware or software. <b>Program</b> - An algorithm that has been coded into something that can be run by a machine, e.g., a computer or a robot.					
<b>"Bridging Back"</b> (previous years/cross-curricular content)		ntent)	"Bridging Forward" (future years/cross curricular content) Year 2 – Coding, Questioning Year 3 – Coding, Branching Databases Year 4 – Coding, Logo, Animation Year 5 – Coding Year 6 – Coding, Text Adventures, Binary			

Maze Explorers					
	Summer 1 (3 lessons)				
unambiguous inst create and debug s use logical reasoni ANCHOR WORDS Direction - The path that something travels. For example, a robot moving forwards, backwards or diagonal. Instruction - Detailed information about how something should be done or operated. Route - A path an object or thing takes to get somewhere.	Algorithms are; how they are ructions simple programs ing to predict the behaviour Key Vocabulary GOLDILOCKS WORDS Command - An action such as left command. Left and Right - A position which relates to something. For example, make the fish move left of the screen. Undo - If we make a mistake, we can press the undo button.	STEP-ON WORDS Algorithm - A precise, step-by-step set of instructions used to solve a problem or achieve an objective.	s on digital devices; and that programs execute by following precise and Key Knowledge By the end of this unit, the pupils should know how: <ul> <li>To understand the functionality of the direction keys.</li> <li>To understand how to create and debug a set of instructions (algorithm).</li> <li>To use the additional direction keys as part of an algorithm.</li> <li>To understand how to change and extend the algorithm list.</li> <li>To create a longer algorithm for an activity.</li> </ul>		
<b>"Bridging Back"</b> (previous years/cross-curricular content)		ntentj	<ul> <li>"Bridging Forward" (future years/cross curricular content)</li> <li>Year 2 – Coding, Questioning</li> <li>Year 3 – Coding. Branching Databases</li> <li>Year 4 – Coding, Logo, Animation</li> <li>Year 5 – Coding, Game Creator, 3D Modelling</li> <li>Year 6 – Coding, Text Adventures</li> </ul>		

<b>Y1</b>	Com	puting
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	Animated Story Books				
	Autumn 2/Spring 1 (5 lessons)				
Statutory NC Objectives I • use technology pur ANCHOR WORDS Sound - can be uploaded into software from a file or created. Sound Effect - A sound other than speech or music made for use in a play, film or computer file. Text - Words, letters, numbers or symbols entered into a computer,.	1 0	STEP-ON WORDS STEP-ON WORDS Font - The style of text used in a piece of writing on a Sound computer or tablet.			
"Bridging Back" (previous years/cross-curricular content)		ntent)	<ul> <li>"Bridging Forward" (future years/cross curricular content)</li> <li>Year 2 – Creating Pictures, Making Music, Presenting Ideas</li> <li>Year 4 – Animation, Making Music</li> <li>Year 5 – Game Creator</li> <li>Year 6 – Text Adventures</li> </ul>		

			ling	
	-	Summer 2	(6 lessons)	
<ul><li>unambiguous instruction</li><li>create and debug simple</li></ul>	ms are; how they are implementers s programs redict the behaviour of simple pro		on digital devices; a	nd that programs execute by following precise and
ANCHOR WORDS	Key Vocabulary GOLDILOCKS WORDS	CTED	-ON WORDS	Key KnowledgeBy the end of this unit, the pupils should know that:
Action - The way that objects change when programmed to do so. For example, move. Command - A single instruction. Event - An occurrence that causes a block of code to be run. The event could be the result of user action such as the user pressing a key or clicking the screen. Object - Items in a program that can be given instructions to move or change in some way (action).	Code - Instructions that a programmer enters into a computer that cause the computer to perform a certain way. Coding - Writing instructions that the computer can process (understand) to make programs (software). Debug/ Debugging - Fixing code that has errors so that the code will run the way it was designed. Output - Information that comes out of the computer e.g. sound that comes out of the speakers. Programmer - A person who writes computer programs. Sometimes called a coder.	Algorithm - step set of in solve a prob objective. Execute - Th word for wh code. We say code) execute Properties	A precise, step-by- structions used to lem or achieve an his is the proper en you run the y, 'the program (or	<ul> <li>To understand what instructions are and predict what might happen when they are followed.</li> <li>To use code to make a computer program.</li> <li>To understand what object and actions are.</li> <li>To understand what an event is.</li> <li>To use an event to control an object.</li> <li>To begin to understand how code executes when a program is run.</li> <li>To understand what backgrounds and objects are.</li> <li>To plan and make a computer program</li> </ul>
<b>"Bridging Back"</b> (previous years	/cross-curricular content)		<b>"Bridging Forward</b> Year 2 – Coding, Qu Year 3 – Coding, Br Year 4 – Coding, Lo Year 5 – Coding	anching Databases

	Spreadsheets				
	Spring 2 (3 lessons)				
			Key Knowledge         By the end of this unit, the pupils should know that:         • To know what a spreadsheet program looks like.         • To enter data into spreadsheet cells.         • To use control tools: lock, move cell, speak and count.		
"Bridging Back" (previous years/cross-curricular content)		ntent)	"Bridging Forward" (future years/cross curricular content)		
			Year 2 – Spreadsheets, Questioning Year 3 – Spreadsheets, Graphing Year 4 – Spreadsheets Year 5 – Spreadsheets, Databases Year 6 - Spreadsheets		

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Y I Computing		_ 1 1 0	
Technology Outside School			
Spring 1 (2 lessons)			
Statutory NC Objectives	KS1 Computing:		
<ul> <li>recognise common uses of information technology beyond school</li> </ul>			
<ul> <li>use technology sa</li> </ul>	fely and respectfully, keepin	g personal information priv	vate; identify where to go for help and support when they have concerns about
	t on the internet or other on	•••••••••••••••••••••••••••••••••••••••	
Key Vocabulary			Key Knowledge
ANCHOR WORDS	GOLDILOCKS WORDS	STEP-ON WORDS	By the end of this unit, the pupils should know that:
<b>Computer</b> - An electronic device for storing and processing data.	<b>Technology</b> - Science and engineering knowledge put into practical use to solve problems or invent useful tools.	<b>Local Community</b> – The group of people that interacts in the area close to our school.	<ul> <li>To walk around the local community and find examples of where technology is used.</li> <li>To record examples of technology outside school.</li> </ul>
<b>"Bridging Back"</b> (previous years/cross-curricular content)			"Bridging Forward" (future years/cross curricular content) Year 2 – Effective Searching Year 3 – Email, Simulations Year 4 – Effective Searching, AI Year 6 – Blogging, Networks