	Banister Primary School Computing Progression EYFS, Key Stage 1 & 2								
Computing	EYFS (Units may not be taught in this order – refer to whole school curriculum overview.) Computational Thinking								
Focus		,							
Barefoot Strand	Pattern/Algorithms Abstraction/ Decomposition/ Debug	Pattern/Logic/ Algorithm/ Decomposition	Pattern/Logic/ Abstraction/Tinkeri ng Decomposition/ Algorithms	Abstraction/ Tinkering/ Algorithms	Algorithms/ Decomposition/ Abstraction	Pattern/Tinkering/ Algorithm/ Debugging/ Algorithm			
Unit Title	Busy Bodies	Awesome Autumn/Winter Warmers	Boats Ahoy	Springtime	Super Space	Summer Fun			
Vocabulary	Order, instructions, rules, first, next, before, create, small steps, most important, algorithm, mistakes, make changes	Pattern, same, different, repeat, predict, plan, sequence, algorithm, direction, small part/chunk, explain, describe	New information, build up, predict, explain, important information, tinker, try out, explain choices, order, sequence, algorithm, first, next, before, after, last	Same, different, explain, important, not important, choices, tinker, try out, predict, change, improve, challenge, find problem, fix problem	Small steps, first, next, before, after, last, same, different, grouping, make choices, explain, plan, make decisions, important, not important, order, instructions, algorithm, find problem, fix problem	Collect, same, organise, groups, pattern, different, pictogram, links, explain, algorithm, set, sequence, first, next, last, before, after, try, test, explore, explain			
Concept Progression	 To be able to: spot patterns follow instructions make choices on what to include/not include (abstraction) make logical choices with information they are given 	 To be able to: create patterns that repeat identify similarities and differences in pattern use language linked to direction break a process down into smaller steps 	 To be able to: develop understanding with more information look for similarities and differences tinker – try things out to explore what happens observe what happens and try to 	 To be able to: select the components that are important focus on the purpose and make selections based on that self-select based on breaking a task into smaller steps 	 To be able to: follow the sequence of a set of instructions or rules create their own algorithm understand the sequence needed for an algorithm 	 To be able to: collect objects for a pictogram recognise to turn, move, place and overlap when tinkering (2D shapes) use debugging to find and fix errors use language linked to 			

		 recognise an order using familiar images (making - soup) 	 explain possible reasons use imagination to create items follow a simple set of instructions 	 create their own simple algorithm – can be image based suggest small steps in an algorithm through decomposition 	 decompose aloud to help with the creation process review what has been created predict what might happen when creating something test out ideas they have 	 movement and position sequence sets of objects to build an algorithm consider ways to change things within a sequence
Skill Progression leading to End Point	 Children will be able to: sort according to pattern create/follow a sequence break a task into smaller chunks and make decisions within each section (decomposition) understand and explain reasons for the choices that they make 	 Children will be able to: create patterns based on what they identify explain choices for directions opted for express reasons for choices 	 Children will be able to: make predictions and explain reasons for their predictions based on what they know identify pattern based on what they know use what happens to develop/change predictions test out predictions to prove / disprove review what they have created using what they know create an identified object by following small-step instructions 	 Children will be able to: select resources/ images that suit a given/ identified purpose debug a design as a process is in action – make changes based on what they notice or what happens plan a simple process to achieve an end result understand the small steps in a process before they get to the end 	 Children will be able to: plan a route for an object use a sequence to plan a route talk through the different stages in their creation talk about something they have created and explain what went well or what might need changing understand how to check whether made predictions work describe any changes that they could then make 	 Children will be able to: sort objects with similarities to make a pictogram check their pictogram for the information they are using use their pictogram to answer simple questions recognised shapes when re-orientated test things out to see where it might go wrong explain their choices for words linked to movement and position explain placement of objects in a sequence explain changes they may need to make

	Banister Primary School Computing Progression EYFS, Key Stage 1 & 2							
	(Unit	s may not be taught ir	Year 1 this order – refer to v	vhole school curriculu	m overview.)			
Computing Strand	Information Technology	Information Technology and Digital Literacy	Computer Science	Information Technology	Information Technology	Computer Science		
Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B		
Unit Title	Technology Around Us	Digital Painting	Moving a Robot	Grouping Data	Digital Writing	Programming Animations		
Vocabulary	Technology, desktop, laptop, computer, mouse, trackpad, screen, login, username, password, keyboard, edit, spacebar	Paint tools, fill, brush, shape, line, undo, save, retrieve, image, file	Robot, direction, device, command, sequence, predict, program, input, run	Object, label, group, data, properties, classify, attributes, similarities	Word process, software, keys, type, space, backspace, cursor, shift, output, edit/review, caps lock, bold, italic, underline, double click, font, undo	Sprite, programming, coding, start block, algorithm, value, programming area, programming block, animation		
Concept Progression	 To be able to: Recognise how technology can help us show examples of technology and how it helps us understand that a computer is a piece of technology make choices when using technology explain why we need rules when using technology 	 To be able to: recognise different software tools do explain that we can use computers to create art show that a tool can be adjusted to suit an individual need know when to decide the use for each tool appropriately explain how to compare a painting on a computer – 	 To be able to: recall words that can be enacted know what a command does recognise how to match a command to an outcome explain how they understand that a program is a set of commands that a computer runs recall that a set of instructions can be input before they are told to run 	 To be able to: demonstrate that objects can be counted explain how they recognise ways that information can be presented show that information can be presented in different ways 	 To be able to: explain that they recognise that a keyboard is used to enter text into a computer (typing) know that the shift key changes the output of a key that text can be changed that text can be edited (reviewed) that the appearance of text can be changed how they have considered the 	 To be able to: enact a given word recall words that can be enacted predict the outcome of a device command list commands that can be used on a specific device explain what a command does match a command and outcome recognise how to make a command run 		

		painting using brushes			impact of any changes made	 choose a command for a specific purpose understand that a program is a set of commands that run on a computer recall a series of commands before enacting them build a sequence of commands (steps) combine commands for a program
Skill Progression leading to End Point	 Children will be able to: choose technology for a task recognise that technology can be used in different ways identify the main parts of a computer use a mouse in different ways use a keyboard to type and edit text show to use technology safely 	 Children will be able to: create a picture using tools use shape/line tools for precision use a range of paint colours use the fill tool for a designed enclosed area of an image use undo to correct a mistake to combine using a range of tools to create a piece of artwork 	 Children will be able to: enact a given word predict an outcome of a command on a used device list commands that can be used on a given device run a command on a floor robot choose a command for a given purpose choose a series of words to enact within a program choose a series of commands that can run as a program build a sequence of commands – in steps combine commands 	 Children will be able to: identify some attributes of an object collect simple data show collected data can be counted describe the properties of an object chooses an attribute by which to sort a group of objects group objects to answer questions explain that similarities (attributes) can be used to group objects describe a group of objects looking for commonalities (similarities) 	 Children will be able to: use letter/number and space keys to input text to a computer use punctuation and special keys select text choose options to achieve an intended outcome change the appearance of text on a computer use backspace to remove text position the cursor in an intended location use undo when needed 	 Children will be able to: choose a series of words to be enacted in a program choose a series of commands to run as a program run a program on a device

	• run a program on a		
	device		

	Banister Primary School Computing Progression EYFS, Key Stage 1 & 2									
	(Units	may not be taught in t	Year 2 his order – refer to wh	ole school curriculum	overview.)					
(Units may not be taught in this order – refer to whole school curriculum overview.) Computing Strand Information Information Computer Technology Technology and Digital Literacy Science Technology Technology Science										
Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B				
Unit Title	IT Around Us	Digital Photography	Robot Algorithms	Pictograms	Making Music	Programming Quizzes				
Vocabulary	Information technology, device, examples of IT- barcode scanner, printer, tablet, chip and pin machine, card reader	Capture, digital photograph, portrait, landscape, format, photography composition, retake, artificial light, natural light, camera focus, effects, edit, adjust	Outcome, algorithm, execute (run)	Pictogram, tally, count, compare, attributes, block diagram	Rhythm , rhythm pattern, pitch, musical pattern, sequence of notes	Green flag (Scratch Jr.), background, modify, debug				
Concept Progression	 To be able to: recognise different types of computers used in schools 	 To be able to: recognise that some digital devices capture 	 To be able to: describe a series of instructions is a sequence 	To be able to:use a tally chart to collect data	 To be able to: identify that computers can play sounds of 	 To be able to: describe a series of instructions as a sequence 				

	 know that computers are a part of IT recognise features of IT talk about the uses of IT and how it benefits us discuss how rules for IT can help us recognise choices are made when using IT 	 images with a camera talk about how to take a photograph know that photographs can be saved and viewed later make choices when creating a photograph recognise good photograph features and identify how it could be improved explain how light affects a photograph recognise that photographs can be changed after they have been captured know that some images are not accurate 	 recall that a series of instructions can be created before they are enacted explain what happens when changing the order of instructions recognise that a program outcome can be predicted 	 compare objects grouped by attributes (e.g. shape) suggest appropriate headings for tally charts and pictograms complete a given comparison question use a program to show information in different ways explain that information can be presented on a computer give simple examples of why some information should not be shared 	different instruments identify that a pattern can be shown in different ways compare playing music on computers and on an instrument	 recall that a series of instructions can be input before being enacted reason logically to predict the outcome of a program
Skill Progression leading to End Point	 Children will be able to: describe some uses of computers identify types of IT in school identify types of IT beyond school show how IT is used safely 	 Children will be able to: capture a digital image take both landscape and portrait photographs view images on a device decide which photographs to keep 	Children will be able to: choose a series of words that can be enacted as a sequence choose a series of instructions that can be run as a program create a program trace a sequence to predict an outcome run a program on a device	 Children will be able to: show that they can enter data onto a computer recognised that attributes are ways to describe people, animals and objects view data in different formats on a computer use pictograms to answer single 	 Children will be able to: experiment with musical patterns on a computer and with different sounds create musical patterns on a computer use a computer to compose a rhythm and melody on a given theme 	 Children will be able to: choose a series of words to enact as part of a sequence explain what happens when the order of instructions are changed choose a series of commands to run as a program

 to ensuring image zoom in/ change i composi photogra consider before ta image try using edit the appeara image 	ut to e on of a h ghting ing an Iters to ce of an image to	 (ways they are similar) use a computer to be able to answer comparison questions evalua compo create computer 	 test a prediction by running the sequence create and debug a self-written program run a program on a device
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			Banister Primary S Computing Progre EYFS, Key Stage	ssion			
	(Lipite	may not be taught in	Year 3	ubolo cobool ourriquium			
Computing Strand							
Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B	
Unit Title	Connecting Computers	Stop-frame animation	Sequencing Sounds	Branching Databases	Desktop Publishing	Events/Actions in Programs	
Vocabulary	Input, process, output, network, network components, server, Wireless Access Point, network switch	Animation, frame, stop-frame animation, story board, sequence of frames, onion skinning	Scratch, backdrop, code, motion block, event block, motion, stage	Tree structure, branching database	Adobe spark, text, image, desktop publishing, return, shift, template, page orientation, place holder, layout	Event, action, code, programming extension, pen extension, pen down block, bugs,	

						debugging, outcome, pen trail, set up block
Concept Progression	 To be able to: describe what an input is explain that a process acts linked to the input explain that an output is produced by the process explain how computer can change how we work explain how a change of process affects the output recognise that a digital device is made up of several parts and that they can be joined to each other identify how devices in a network connected with each other recognise that a network is made up of a number of components explain how information is passed through multiple connections identify the benefits computer networks 	 To be able to: explain that an animation is a sequence of images identify that a capturing device needs to be in a fixed position recognise that smaller movements create a smoother animation explain the need for consistency in working explain the impact of adding other media to an animation explain that a project be exported so it can be shared 	 To be able to: explain that programs start because of an input explain what a sequence is identify that a program includes sequences of commands identify that the sequence of a program is a process explain that the order of commands can affect a program's output identify that different sequences can achieve the same output identify that different sequences can achieve different outputs 	 To be able to: investigate questions with yes/no answers identify attributes that you can ask yes/no questions about select an attribute to separate objects into two similar sized groups explain that a branching database is an identification tool recognise that data can be structured by use of yes/no questions explain that a well- structured branching database will allow objects to be identified using fewer questions link two levels of a branching database, using AND 	 To be able to: recognise how text/images can be used together convey information know landscape/ portrait as different page orientations consider how different layouts suit different purposes recognise that DTP pages can be structured with the use of placeholders recognise how different font styles and effects are used for certain purposes consider the benefits of using a DTP application 	 To be able to: explain that programs start with input explore what a sequence is identify that a program includes a sequence of commands explain that an order of commands effects a program's output identify that different sequences can achieve the same/different outputs

Skill Progression leading to End	Children will be able to: • identify input/output	Children will be able to:plan an animation using a storyboard	Children will be able to:build a sequence of commands	Children will be able to: • create questions with yes/no	 Children will be able to: show that page orientation can be 	Children will be able to:build a sequence of commands
Point	 devices explain that a computer system accepts an input and processes it to produce an output explain how a computer network is used to share information explain the role of a switch server and wireless access point in a network identify network devices around them explain how networks can be connected to other networks 	 set up a work area with an awareness of what they are capturing capture an image use the onion skinning tool to review subject position move a subject between captures review a captured sequence of frames as an animation remove frames to improve the animation add media to enhance an animation review a completed project 	 combine commands in a program order commands in a program create a sequence of commands to produce a given outcome 	 answers choose questions that will divide objects into evenly sized sub groups repeatedly create subgroups of objects identify an object via a branching database retrieve information from different levels of a branching database 	 changed add text as a placeholder organise text/image placeholders in a page layout add/remove images to and from placeholders edit text in a placeholder move/resize/ rotate images review a document 	 combine commands in a program order commands in a program create a sequence of commands to produce a given outcome

	Banister Primary School Computing Progression EYFS, Key Stage 1 & 2						
	(Units	may not be taught in	Year 4 this order – refer to w	hole school curriculu	m overview)		
Computing Strand							

Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B
Unit Title	The Internet	Audio Production	Repetition in Shapes	Data Logging	Photo Editing	Repetition in Games
Vocabulary	Router, World Wide Web, online content	Input device , output device, microphone , copyright, recording, podcast, soundwave view, 'Trim' recording, import, align, layers (in recording), sound effect, background music, audio file	Logo (website used), logo command, code snippet, repeat, loop, count controlled loop, decompose/ decomposition, procedures	Data logger, data set, data collection, sensors, data points, data file, logged data	Rotate, crop, filter, colour effect , cloning, photo retouch, duplicate, combined image	Count-controlled loop, loop, snippet of code, infinite loop, event block, code blocks
	To be able to:	To be able to:	To be able to:	To be able to:	To be able to:	To be able to:
Concept Progression	 describe how networks connect to other networks recognise the need for security on the internet explain that the global interconnection of networks is the internet recognise that the World Wide Web is part of the internet outline how information can be shared via the World Wide Web describe how to access the World Wide Web describe the types of content/media that can be added, 	 identify that sound can be recorded identify that an input device is needed to record sound and output devices are needed to play audio recognise that recorded audio can be stored on a computer recognise that audio can be edited recognise that sound can be represented visually as a waveform recognise that audio can be layered so that multiple sounds 	 relate what 'repeat' means identify everyday tasks that include repetition as part of a sequence, e.g. brushing teeth, dance moves explain that we can use a loop command in a program to repeat instructions identify a loop within a program identify patterns in a sequence explain that in programming there are indefinite loops and count-controlled loops explain that an indefinite loop will run until the 	 suggest questions that can be answered using a table of data identify data that can be logged over time identify that sensors are input devices recognise that a sensor can be used as an input device for data collection explain that a data logger captures 'data points' from sensors over time 	 use an application to change the whole of a digital image change the composition of a digital image by rotating and flipping change the composition of a digital image by cropping adjust colours of a digital image use an application to change part of a digital image apply effects to a digital image select part of a digital image use clone, copy, and paste to 	 understand what 'repeat' means identify everyday tasks that include repetition as part of a sequence, e.g. brushing teeth, dance moves explain that we can use a loop command in a program to repeat instructions identify a loop within a program identify patterns in a sequence explain that an indefinite loop will run until the program is stopped explain that you can program a loop to stop after a

	 created, and shared on the World Wide Web explain how the content of the World Wide Web is created, owned, and shared by people explain that the internet enables us to view the World Wide Web explain that the World Wide Web comprises of websites and web pages describe the current limitations of World Wide Web media explain the benefits of the World Wide Web 	can be played at the same time • consider the results of editing choices made	 program is stopped explain that you can program a loop to stop after a specific number of time identify patterns in a sequence, e.g. 'step 3 times' means the same as 'step, step, step' justify when to use a loop and when not to explain the importance of instruction order in a loop recognise that not all tools enable more than one process to be run at once 		 change the composition of a digital image use cloning to retouch a digital image use an application to add to the composition of a digital image add text to a digital image 	 specific number of times identify patterns in a sequence, e.g. 'step 3 times' means the same as 'step, step, step? justify when to use a loop and when not to explain the importance of instruction order in a loop recognise that not all tools enable more than one process to be run at once
Skill Progression leading to End Point	 Children will be able to: use the World Wide Web safely use the different attributes associated with the web, securely and with care evaluate the reliability of content and the consequences of unreliable content 	 Children will be able to: record sound using a computer play recorded audio import audio into a project delete a section of audio change the volume of tracks in a project 	 Children will be able to: list an everyday task as a set of instructions including repetition use an indefinite loop to produce a given outcome use a count-controlled loop to produce a given outcome plan a program that includes appropriate loops 	 Children will be able to: use a digital device to collect data automatically choose how often to automatically collect data samples use a set of logged data to find information use a computer program to sort data by one attribute 	 Children will be able to: recognise that digital images can be manipulated recognise that digital images can be changed for different purposes choose the most appropriate tool for a particular purpose consider the impact of changes made on the 	 Children will be able to: list an everyday task as a set of instructions including repetition use an indefinite loop to produce a given outcome use a count-controlled loop to produce a given outcome plan a program that includes appropriate loops to

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			Banister Primary S Computing Progre EYFS, Key Stage	ssion		
	(Units	may not be taught in	Year 5 this order – refer to w	hole school curriculum	overview.)	
Computing Strand	Information Technology	Information Technology and Digital Literacy	Computer Science	Information Technology	Information Technology	Computer Science
Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B
Unit Title	Systems and Searching	Video Production	Selection in Physical Computing	Flat-file Databases	Introduction to Vector Graphics	Selection in Quizzes
Vocabulary	Digital system, physical connection, electronic connection, computer systems, search engine, rank , web search, web crawler, search engine index, content creator	Visual media, store, retrieve, export, reshoot	Crumble controller, programming environment, circuit, microcontroller, Crumble, Sparkle, component, infinite loop, count-controlled loop, condition,	Record, field, database, sorting, grouping	Vector, vector drawing, alignment grid, resize handle, zoom tool, layers, duplicate (images), group and ungroup (images)	Conditions 'ifthenelse', structure, program flow, branching structure, setup code

			conditional loop, selection, action			
Concept Progression	 To be able to: recognise that a system is a set of interconnected parts which work together explain that computers can be connected together to form IT systems identify that data can be transferred between IT systems 	 To be able to: explain the features of video as a visual media format recognise which devices can and can't record video explain the purpose of a storyboard recognise that filming techniques can be used to create different 	 selection, action To be able to: explain that a condition can only be true or false relate that a count-controlled loop contains a condition compare a count-controlled loop with a condition-controlled loop explain that a condition-controlled loop explain that a condition-controlled loop will 	 To be able to: explain that a computer program can be used to organise data explain that tools can be used to select data to answer questions outline how operands can be used to filter data outline how ordering data allows us to answer some 	 To be able to: identify that a vector drawing comprises separate objects recognise that each object in a drawing is in its own layer explain how alignment and size guides can help create a more consistent drawing recognise that 	 To be able to: explain that a condition can only be true or false relate that a count-controlled loop contains a condition compare a count controlled loop with a condition-controlled loop explain that a condition-controlled loop
	 recognise inputs, processes, and outputs in large IT systems describe the role of a particular IT system in their lives describe the role of a particular IT system in their lives describe the role of a particular IT system in their lives relate that search engines are examples of large IT systems explain why search engines create indices, and that they are different for each search engine explain the role of web crawlers in creating an index 	 effects recognise the need to regularly review and reflect on a video project explain the limitations of editing video on a recording device identify that videos can be edited on a recording device or on a computer identify videos can be improved through and reshooting or editing recognise projects need to be exported to be shared 	 stop when a condition is met explain that when a condition is met, a loop will complete a cycle before it stops o explain that selection can be used to branch the flow of a program explain that a loop can be used to repeatedly check whether a condition has been met explain the importance of instruction order in 'ifthenelse' statements 	 questions outline how 'AND' and 'OR' can be used to refine data selection explain that computer programs can be used to compare data visually explain that we present information to communicate a message 	objects can be modified in groups • recognise that vector images can be scaled without impact on quality consider the impact of choices made	 will stop when a condition is met explain that when a condition is met a loop will complete a cycle before it stops explain that selection can be used to branch the flow of a program explain that a loop can be used to repeatedly check whether a condition has been met explain the importance of instruction order in 'if then else' statements

	 and how search results are selected explain that ranking orders search results to make them more useful explain how ranking is determined by rules, and that different search engines use different rules explain why the order of results is important and to whom explain how search engines make money by selling targeted advertising space identify some of the limitations of search engines 					
Skill Progression leading to End Point	 Children will be able to: describe the input and output of a search engine demonstrate that different search terms produce different results evaluate the results of search terms 	 Children will be able to: use different camera angles use pan, tilt and zoom identify features of a video recording device or application combine filming techniques for a given purpose 	 Children will be able to: create a condition-controlled loop use a condition in an 'ifthen' statement to start an action use selection to switch the program flow in one of two ways use a condition in an an an action 	 Children will be able to: choose different ways to view data choose which attribute and value to search by to answer a given question (operands) ask questions that need more than one attribute to answer choose which attribute to sort data by to answer a given question 	 Children will be able to: add an object to a vector drawing select one object or multiple objects delete objects move objects between the layers of a drawing duplicate objects using copy and paste modify and reposition objects 	 Children will be able to: choose a condition to use in a program create a condition-controlled loop use a condition in an 'if then' statement to start an action

	 determine what scenes will convey your idea choose to reshoot a scene or improve later through editing decide what changes I will make when editing use split, trim and crop to edit a video 	'ifthenelse' statement to produce given outcomes	 choose multiple criteria to search data to answer a given question (AND and OR) select an appropriate graph to visually compare data choose suitable ways to present information to other people 	 group and ungroup selected objects combine options to achieve a desired effect create a vector drawing for a given purpose 	 use selection to switch program flow use 'if then else' to switch program flow in one of two ways
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			Banister Primary Sc Computing Progress EYFS, Key Stage 1	sion		
	(Linits	may not be taught in	Year 6 this order – refer to wh	ole school curriculur) Overview)	
Computing Strand	Information Technology	Information Technology and Digital Literacy	Computer Science	1	Information Technology	Computer Science
Teach Computing Strand	Computing Systems and Networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B
Unit Title	Communication and Collaboration	Web Page Creation	Variables in Games	Introduction to Databases	3D Modelling	Sensing Movement
Vocabulary	Web address, IP address, Domain Name Server (DNS), data packet, header, data payload, copyright, Internet communication	HTML code, web layout, copyright, copyright-free, fair use, navigation path, hyperlink, user experience	Variable, program variable, value	Data input, spreadsheet, cell, cell format, produce calculated data, formula, cell references, duplicate	3D model, three dimensions, lift, lower, workplane, recolour, placeholders	Micro:bit, input, process, output device, emulator Controllable device, selection, accelerometer, Operand
	To be able to:	To be able to:	To be able to:	To be able to:	To be able to:	To be able to:

Concept Progression • recognise that data is transferred across networks (methods) • recognise that data is transferred across networks) • recognise that different media types • define a variable as changeable • define a variable as that can be acreated una spreadsheet data • explain that as preadsheet data • explain that
importance of variable at the

			 setting up a variable at the start of a program (initialisation) explain that there is only one value for a variable at any one time explain that if you change the value of a variable, you cannot access the previous value (cannot undo) explain that if you read a variable, the value remains explain that the name of a variable is meaningless to the computer explain that the name of a variable name of a variable 			 start of a program (initialisation) explain that there is only one value for a variable at any one time explain that if you change the value of a variable, you cannot access the previous value (cannot undo) explain that if you read a variable, the value remains explain that if you read a variable, the value remains explain that the name of a variable is meaningless to the computer explain that the name of a variable needs to be unique
Skill Progression leading to End Point	 Children will be able to: outline methods of communicating and collaborating using the internet choose methods of internet communication and collaboration for given purposes evaluate different methods of online communication and collaboration decide what you should and should not share online 	 Children will be able to: review an existing website (navigation bars, header) create a new blank web page add text to a web page set the style of text on a web page change the appearance of text embed media in a web page 	 Children will be able to: identify a variable in an existing program experiment with the value of an existing variable choose a name that identifies the role of a variable to make it easier for humans to understand it decide where in a program to set a variable update a variable with a user input 	 Children will be able to: calculate data using a formula for each operation use functions to create new data use existing cells within a formula choose suitable ways to present spreadsheet data 	 Children will be able to: position 3D shapes relative to one another use digital tools to modify 3D objects combine objects to create a 3D digital artefact use digital tools to accurately size 3D objects construct a 3D model which reflects a real world object 	 Children will be able to: identify a variable in an existing program experiment with the value of an existing variable choose a name that identifies the role of a variable to make it more usable (to humans) decide where in a program to set a variable

 add web pages to a website preview a web page (different screen sizes) insert hyperlinks between pages insert hyperlinks to another site 	 use an event in a program to update a variable use a variable in a conditional statement to control the flow of a program use the same variable in more than one location in a program 	 update a variable with a user input use an event in a program to update a variable use a variable in a conditional statement to control the flow of a program use the same variable in more than one location in a program
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