

## Computing—Skills Progression



	Y1	Y2	Y3	Y4	Y5	Y6
Computer skills	Children will learn how to:  How to switch on and shut down a computer  Use a computer mouse  Launch applications and manipulate windows  Open and save files and folders  Drag objects using a mouse Using Word, children will learn how to:  Type with two hands  Use the shift, space and enter key  Edit work by using the backspace, delete and arrow keys  Undo and redo text  Select and format text	Children will consolidate how to:  Turn on and off the computer independently  Use a mouse accurately to manipulate the screen  Open applications  Type with two hands	Using Microsoft Word, children will learn how to:  Use the snipping tool Search for files Take screenshots Use the 'change case' button Use menu buttons Align text Use the 'show all characters' button Use bullets and numbering Use keyboard shortening keys Add text boxes and wrap text	Using Microsoft Word, children will learn how to:  Select, edit and manipulate text in different ways  Insert an image into a document  Format an image  Use formatting tools to improve layout  Use the spellcheck tool  Insert a simple table  Change the size of the page		Using Excel, children will learn how to:  Understand and use spread sheets  Format and enter specific formulas  Solve specific problems such as number calculations  Create their own spread sheet  Use basic formula to find answers to problems including SUM and AVERAGE  Insert a bar or column graph from a spreadsheet  Replicate formulas over several cells
Computer art/DT	Using Microsoft Paint, the children will learn how to:  Use different colours and brushes  Create shapes  Fill areas  Undo and redo designs  Add text to a paint design	Using Microsoft Paint, the children will learn how to:  Build on their prior computing painting knowledge  Create a painting in the style of an artist  Create darker and lighter shades of colour	Using Microsoft Paint, children will learn how to:  Draw, order, group and manipulate objects to make a picture	Using Microsoft Publisher, children will learn how to:  Create text boxes Insert photos off the internet and clipart Resize and position objects Use the 'crop' feature Edit text Control a model using an ICT control model (codebug)	Using SketchUp, children will learn how to:  Develop and extend on their drawing skills to create 3D models  Create simple and complex 3D models  Add detail and manipulate 3D models using a variety of tools	

animation	Using Scratch Junior, the children will learn how to:  Give simple algorithms  Debug simple algorithms  Use logical reasoning to predict how a program will	Using Turtle Logo, children will learn how to: Create, test and debug algorithms Move forward and make quarter turns, Use command abbreviations for moving forwards, right and left Use the 'repeat'	Using Turtle Logo, children will learn how to:  • Move and draw a figure on a screen using 'pen up' and 'pen down'  • Use algorithms and the 'repeat' command	Using Scratch, children will learn how to:  Write quizzes by combining questions  Solve problems  Test and debug algorithms  Add sound and backgrounds  Edit characters by combining plocks	Using Scatch, children will learn how to:  Build and edit algorithms  Develop their skills in writing their own algorithms as well as editing and debugging existing codes  Add sounds  Manipulate the movement of two or	Using Scratch, children will learn how to:  Develop their skills in writing their own algorithms as well as editing and debugging existing codes  Structure code and animate characters and scenes, gradually building to create a
Programming and ani	<ul> <li>behave</li> <li>Understand the basic principles of coding</li> <li>Direct a Bee-Bot to a toy</li> <li>program a Bee-Bot, one instruction at a time, using the arrow buttons.</li> </ul>	command  Using Scratch, children will learn how to:  Write basic algorithms to make the Sprite move using a series of blocks  Use the 'repeat' command  Add sound		Using Turtle Logo, children will learn how to:  Create an algorithm to program a procedure  Use colour  Set the position of the turtle using coordinates  Use the arc command to create patterns using different shapes	more characters Using Flowol, children will learn how to:  Use flowcharts to program and control devices  Build sequences of instructions, control multiple outputs and structure algorithms with decisions and inputs  Insert symbols to create a working flowchart  Edit symbols to modify the effect  Edit a flowchart to control an output  Use 'inputs' and 'reasoning loops'  Create a subroutine separate to the main flowchart program	short animated story Using Kodu, children will learn how to:  Create their own world Edit a world by adding effects  Edit a character by adding code, allowing them to interact with the world  Control a character using a keyboard to follow a pre-planned algorithm  Design a race between two characters

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Internet research and communication	Children will learn how to:  Use the internet safely and purposefully  Search the internet using one word and make sense of the results  Use "for kids" to return suitable results  Follow links and then return to the search results	Children will learn how to: Distinguish between a reliable and unreliable website or webpage Save webpages in a browser, as well as in a file or folder, and how this can be shared with others Identify ways of communicating online, and how they can keep safe		Using Google Sites, children will learn how to:  Create and edit a webpage using Google  Use advanced search features in Google  Create a webpage with the layout of their own  Add hyperlinks across different webpages  Add a homepage with images and text	Using Google Sites, children will learn how to:  Create an entire website by first researching what makes a good website Create a sitemap and multi-page website Link pages internally and externally Preview a webpage before publishing
Inte	Use a range of search engines				
Sound and recording			Using MovieSoup, the children will learn how to:  • Add timings using application  • Order and sequence frames  • Insert images to create a simple stop-motion animation short film clip	Using Audacity, children will learn how to:  Use software and digital devices for recording sound  Present, listen to and review their own sound recordings  Edit pitch and volume  Add background sounds	Using Windows Movie Maker, children will learn how to:  Use digital devices for recording (video camera or tablet) to plan good quality interviews for a documentary Import video files into video editing software Create transitions and visual effects to enhance a movie Add a title and credits
Presentation skills	Using Microsoft PowerPoint, children will learn how to:  Create simple presentations  Use appropriate skills to create a PowerPoint including; adding new slides, editing slide layout, adding and formatting images, reordering slides, present slideshow and printing  Save work into a	Using Microsoft PowerPoint, children will learn how to:  Set a theme for a PowerPoint  Use slide transitions and animations  Create hyperlinks in the action settings  Add audio and videos			

		folder which can be				
		found and opened				
E-safety	Children will understand:  Rules to follow to keep safe online  How to search for reliable sources online  How to keep personal information private  How to put their name and date on something that is theirs  How to safely use email for communication	Children will understand:  Websites that are appropriate and not  Digital footprints  Cyberbullying  Keyword searching online  How to judge whether a website is a good source of information or not	Children will understand:  The importance of secure passwords  How to communicate online safely  How websites use promotions  In-person and online communication differences  How to communicate effectively via email	Children will understand:  How to be a good online citizen  How to protect themselves from online identify theft  Cyberbullying messages  How to increase the strategies for keyword searches  Plagiarism	Children will understand:  How to create strong passwords  How to build a strong digital citizenship community  Spam and its consequences  How to cite a website  Photo alternations and how can photos can be altered digitally	Children will understand:  How to talk safely online  How to be a good digital citizen  Privacy rules and policies  How to tackle and deal with cyberbullying if it arises  How online stereotypes can be influential
	Computer	Mouse	Word processing	Select	3D modelling	Spreadsheet
Vocabulary	Typing	Type	Screenshots	Edit	Design	Formula
<u> </u>	Shift	Applications	Change case	Insert	Colour	Calculations
=	Space		Menu	Image	Building	SUM
<b>∣</b>	Enter	Painting	Align	Format	Tools	AVERAGE
a a	Editing	Microsoft Paint	Text	Spellcheck		
l ii	Backspace	Fill	Bullets	Table	Algorithms	Algorithm
Ŏ	Delete	Edit	Numbering	14516	Edit	Code
Š	Arrow keys	Move	Text boxes	Test	Debug	Scenes
	Undo	Darker	Wrap text	Debug	Sound	Animations
	Redo	Lighter	Widp toxt	Algorithms	Manipulate	7 (11111/10110110
	Text	Shades	Manipulate	Edit	Movement	Debugging
	Mouse	Emotion	Draw	Characters	Wovement	Keyboard control
	Applications	Zineaen	Picture	Quiz	Flowol	
	Windows	Coding	1 101010	Co-ordinates	Flowcharts	Sitemap
	Open	Programming	Programming		Input	Multi-page website
	Save	Animation	Coding	Publisher	Output	Internal
	-2.0	Algorithm	Algorithm	Text box	Reasoning loop	External
	Paint	Debug	Repeat command	Resize		
	Colours	Repeat	-1 3	Crop	Google Site	Filming
	Brushes	Command	Website	Edit text	Webpage	Editing
	Shapes		Reliable		Hyperlink	Transitions
	Autofill	Internet	Unreliable	Stop-start animation	Search features	Ordering
	Text	Safety	Webpages	Sequence	Homepage	Sound
		E-safety	Browser	Timing		
	Programming		Folder	Frames	Recording	

Bee-Bots	Presentation	Communication	Movie animation	Pitch	
Scratch Junior	Folders	Safe		Tone	
Algorithms	Search		Online citizen	Voice control	
Debug	Files	Snipping tool	Theft	Editing	
Coding	Print	PowerPoint	Cyberbullying		
	Slide layout	Theme	Plagiarism	Passwords	
E-safety	Reordering	Slide transitions		Digital citizenship	
Online safety	Slideshow	Hyperlinks		Spam	
Search		Audio		Photo alterations	
Reliable	Digital footprint	Videos		Digital enhancement	
Personal information	Cyberbullying				
Email	Keyword	Secure			
Communication	Source	Passwords			
Safe		Communicate			
		Websites			
		Email			