



Skills Progression in Computing at Foundation Stage

	ded = wledge			Understand	ding of the world		
ing links	Explores programmable toys	Understands cause and effect e.g. press forward to move it forward	Uses a simple app	Confidently knows how to use a simple app or game	Understands how to program a toy to get from A to B	Debugging when things go wrong	Identifies rules that help keep them safe and healthy when using
Computing		ething makes me sad, and in real life	Knows what to do when something makes Kn me sad, either online or in real life		Know they need to be kind online	Knows not to share information	technology
	Knows how to safely search online with or without support Taught throughout the year through all topics					-	





Skills Progression in Computing at Key Stage One

	Digital Citizenship	Digital Literacy	Computer Science	Information Technology
Year 1		 I can use skills I have learnt across multiple application programs, including: I can input text and images using a simple publishing programs I can type a simple sentences on the screen, making use of a word bank I can alter my writing in a number of ways (size, colour, font etc.) I can tell you the main keys for typing e.g. shift, space bar, full stop I can type simple sentences using the correct format (capital letters, space and full stop) I can use buttons within a programme to make text bold/ italics / text alignment etc. I can use the digital camera independently I can use the digital camera independently I can use a pictogram by entering data into a simple graphing package I can use a pictogram to answer simple questions I can explore sounds in a music programme or sound app Use technology purposefully to create, organise, store, manipulate and retrieve digital content 	 I can tell you what an algorithm is I can give and follow instructions, which include straight and / or turning commands – one at a time. I can plan a simple algorithm I can <u>create</u> a simple program I can <u>debug</u> a simple program that is causing an unexpected outcome. I can predict if a simple program will fulfil my algorithm I can break a problem down into smaller parts (chunking / decomposing) 	 ✓ I can identify a browser and can use the internet to find things out ✓ I can use simple keywords in search engines ✓ I can save my work (Purplemash/school network) so that others know it belongs to me (e.g. filename, name on content) ✓ I can identify the icons for applications on the desktop and launch accordingly ✓ I can use online resources – Google Maps & Google Earth to conduct research & find information ✓ I can log on and off the school network using my individual username and password

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Year 2	I can use the internet to communicate with people I do not know well (e.g. email a pen pal in another school/ country) I can access school online resources e.g. Blog / Purplemash	 I can use skills I have learnt across multiple application programs, including: I can start to use simple keyboard shortcuts Ctrl + B, I, U to edit my text style I can use spell checker to check my work I can use the 'undo' icon to fix a mistake I can use the return/enter key to insert relevant line breaks I can add a page border I can use a range of ICT devices to create a sequence of sounds I can use a digital video camera to capture film and images I can add simple titles and credits I can plan a simple Y/N tree diagram to sort information e.g. Branching database to answer simple questions I can use ICT to support handling data – creating simple graphs, bar charts and pie charts 	 I can debug a programme I can debug a program independently that has caused an unexpected outcome I can use different events to start my programs – timing / on click / on button press Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs I can use a variety of sources to find, sort and select information appropriate to my class work including using the internet I can refine my searches to limit search results using an internet search engine



Skills Progression in Computing at Lower Key Stage Two



	Digital Citizenship	Digital Literacy	Computer Science	Information Technology		
Year 3	 I can use technology safely and respectfully and responsibly I can search for information about myself online 	 I can use skills I have learnt across multiple application programs, including: I can type a number of sentences using the keyboard I can use tab to indent paragraphs I can use cut, copy and paste to re-order text I can use simple keyboard shortcuts e.g. Ctrl + V, X, C to re-order text I can use solumns I can use bullet points, speech bubbles, auto shapes and text boxes I can format wrapping/layout of text boxes and images in word I can use the format tab to alter word art to enhance my work I can create a folder to save my work in I can create a folder to save my work in I can search and use a branching database to identify objects I can create a multimedia presentation / eBook incorporating images, sounds and text using a multimedia package / apps or online program I can create a simple musical composition combining electronic and live sounds I can create a simple musical composition combining electronic and live sounds I can add suitable sound effects and tracks I can add suitable sound effects and tracks 	 I can use logical reasoning to explain what will happen next I can solve problems by decomposing them into smaller parts I can use and edit a pre-written program to achieve a specific outcome I can detect and debug errors in algorithms and programs I can sequence a simple program on Logo to produce a line drawing I can write a program to complete an algorithm 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; Use sequence in programs; 	✓ I can use key phrases in search engines See knowledge progression document.		

	✓	 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 Collect, analyse, evaluate and present data and information using a variety of different software 	✓	
Year 4	✓ See knowledge progressions document.	 ✓ I can use skills I have learnt across multiple application programs, including: ✓ I can select appropriate tools to add emphasis and effect to my work I can extend the use of multimedia packages to include importing images, hyperlinks and the use of sounds recorded independently ✓ I can edit the colour, text and merge digital photographs using a range of devices e.g. Skitch, Microsoft image tools, collage app ✓ I can effectively plan for an animation or film and use purposefully ✓ I can take a series of pictures to form an a short film clip / animation / eBook I can use a mobile device to film a short clip ✓ I can edit video, animation or music footage by cropping clips I can choose appropriate scene transitions ✓ I can enter a basic mathematical formula into Excel 	 ✓ I can detect and debug errors in algorithms and programs ✓ I can independently select and sequence code to make my own program ✓ I can demonstrate the loop or repeat command in all programming environments - I use more than 1 (2Simple – 2Code / ScratchJr /Kodu 	✓ I can use key phrases in search engines See knowledge progression document.

 ✓ I can change the look of a spreadsheet by using different formats e.g. text styles, colour, number format inc, currency and date, row and column heights ✓ I can insert and delete columns and rows in a spreadsheet ✓ I can use SUM to calculate the total of a set of numbers in a range of cells ✓ I can change data to answer "what
if?" questions

The Gates Primary School Westhoughton The Gates Skills P	rogression in Computi	ng at Upper Key Stage	Two The Gates
	 I can use skills I have learnt across multiple application programs, including: I can select appropriate tools to add emphasis and effect to my work I can draft and redraft my written work by deleting, inserting and replacing text to improve clarity and create mood. Creativity I can design a 3D model using ICT to meet a specific goal, e.g. 2Design & Make I can evaluate and improve my finished designs I can evaluate multimedia pages, such as Wiki entries, websites and blogs, and recognise the features of good page design and how it is suited to an audience I can add titles, credits, transitions and special effects I can review and add to, replace and edit clips to make messages clearer I can export / embed a video in different formats for different purposes 	 ✓ I can use selection to create games in which the user must make a choice ✓ I can use my skills and understanding of selection in more than 2 programs ✓ I can solve problems by decomposing them into smaller parts 	 I can use different search technologies I can evaluate digital content and can explain how I make choices from search results I can create and use strong and secure passwords I can identify the features of legal downloads and illegal (pirated) content I can identify the key internal parts of a computer – RAM, memory, processor, motherboard

		 I can create a database structure of my own and enter the data I can prepare a data collection form and collect quality information I can use spreadsheets to create a graph I can interpret graphs of data collected from a variety of sources 		
Year 6	 I can use technology safely and respectfully and responsibly I can identify messages about gender roles and make judgements based on them 	 I can use skills I have learnt across multiple application programs, including: I can choose, select and use a combination of software to present my work I can select appropriate tools to add emphasis and effect to my work I can draft and redraft my written work by deleting, inserting and replacing text to improve clarity and create mood I can interpret graphs of data collected from a variety of sources 	 ✓ I can confidently use events, repeats, selection and variables ✓ I can use a variable in a variety of programming software - 2Simple – 2Code / ScratchJr / Scratch / Kodu /Kodable / LightBot / ALEX / ✓ I can confidently break a problem down and methodically create a program to solve it, testing and adapting as I go ✓ I confidently use the Blockly programming language 	 ✓ I can use search technologies effectively ✓ I can define the terms 'influence', 'manipulation' and 'persuasion' and explain how I might encounter these online (e.g. advertising and 'ad targeting') ✓ I can demonstrate strategies to enable me to analyse and evaluate the validity of 'facts' and I can explain why using these strategies are important ✓ I can identify flag and report inappropriate content ✓ I use different passwords for a range of online services work from different places ✓ I can effectively research using the world wide web ✓ I can demonstrate the use of search tools to find and access online content, which can be reused by others ✓ I can demonstrate how to make references to and acknowledge sources I have used from the internet ✓ I can independently save and retrieve