

Child Friendly Skills Progression for Computing

Strand		Year 3	Year 4	Year 5	Year 6
Digital Literacy	Communicating	E-Mails <ul style="list-style-type: none"> I can open and send emails I can recognise the difference between email addresses and websites I can use open, save, delete and reply functions I can use email addresses effectively using 'contacts' I can explain some of the safety risks associated with communicating via email 	Blogging <ul style="list-style-type: none"> I can open and create a blog and post it online I can add pictures and images to a blog I can publish a blog online (staff to consider online safety elements) I can restrict access to a blog ensuring it is safe (support) I can post positive comments and responses on other blogs 	Green Screen Filming <ul style="list-style-type: none"> I can open and create a film using dual layers I can use dual layers to create an underlay/backdrop of images I can add music from saved sources provided on APP I can evaluate self and peers work I can edit, cut and refine film based on given evaluations I can screen shot on an iPad 	Podcasting <ul style="list-style-type: none"> I can evaluate other podcasts for content and interest I can open, plan and create a podcast I can plan a format which will consider audience/purpose I can add sounds, images from a variety of sources I can publish online considering/discussing safety risks I can edit/improve using comments from peer
	Computing Skills	<ul style="list-style-type: none"> I can locate the different keys on QWERTY keyboard (letters, digits, space, enter) I can use search engines to find a range of media (pic/sites etc) I can use key words in searches I can scan QR codes (supp) 	<ul style="list-style-type: none"> I can use search questions in search engines to find answers to questions I understand the use of + symbol in a search engine I can scan QR codes to find info and open web links (independently) 	<ul style="list-style-type: none"> I can use + symbol and key words in a search engine I can organise 'my docs' by creating sub-folders I can drag/drop files into folders I can confidently access files in folders and sub-folders I can create QR code links and save 	<ul style="list-style-type: none"> I can use domain names (.org/.co.uk etc) to explain validity of information found. I understand how to manipulate different file formats (e.g. add jpeg to word/other document) I can save docs as a PDF I can create QR links and add to own documents

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Information Technology	Presenting & Publishing	<p>Word Processing:</p> <ul style="list-style-type: none"> • I can produce a text based document • I can format text (B U I) • I can alter font and size • I can alter text colour • I can use .?,!&" (inc shift key) with support • I can open documents from icons on desktop • I can save documents 	<p>MS Publisher</p> <ul style="list-style-type: none"> • I can plan a one page presentation showing consideration for audience • I can use word art (inc shape, colour, font, size) • I can use copy and paste (inc icons and keyboard shortcut) • I can use images from WWW • I can add borders and shapes • I can independently resize and move items on page • I can use bullets and numbering tool • I can use spell check • I can print doc to correct printer • I can independently use .?,!&" (inc shift key) • I can re-open saved documents independently • I can use ctrl c (copy) • I can use ctrl v (paste) • I can use ctrl x (cut) 	<p>PowerPoint</p> <ul style="list-style-type: none"> • I can plan and create a slide show with multiple slides showing consideration of an audience/reader • I can save/retrieve pictures from a variety of sources into own folder • I can use animations to make words/pics appear, flash. • I can use transitions to create effects between slides • I can add sounds to complement animations and transitions • I can add hyperlinks to link to other websites (with support) • I can 'present' in person using the slideshow • I can use 'ctrl' & 'prt sc' to save a screen shot on a laptop 	<p>Website Design</p> <ul style="list-style-type: none"> • I can plan a website design which considers both audience/purpose • I can evaluate other websites for content and design • I can save/retrieve pictures and sounds from a variety of sources (inc camera, WWW, CD, own recordings) • I can create own website with sounds, pictures, headings, • I can create hyperlinks to other sites and links to other pages on own website • I can publish online with appropriate regard to safety considerations and an understanding of what is appropriate to include

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Information Technology	Data Collection & Logging	<p><u>Sensors—Link to science (LIGHT)</u></p> <ul style="list-style-type: none"> I can use ICT to measure sound/temperature/light using sensors as part of a science topic With support 	<p><u>Sensors—Link to science (SOUND)</u></p> <ul style="list-style-type: none"> I can use ICT to measure sound/temperature/light using sensors as part of a science topic 	<p><u>Sensors—Link to science (TEMP/MATERIALS I)</u></p> <ul style="list-style-type: none"> I can use ICT to measure sound/temperature/light using sensors I can explain recorded data 	<p><u>Sensors—Link to science (LIGHT)</u></p> <ul style="list-style-type: none"> I can use ICT to measure sound/temperature/light using sensors and interpret data I can interpret recorded data and suggest reasons for unexpected variations/results

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Information Technology	Managing Data	<p>Branching Databases:</p> <ul style="list-style-type: none"> • I can use a simple branching database • I can select suitably linked images to sort/create own branching database • I can sort images and explain reasons for choices • I can create YES/No questions to build the branches • I can organise images and questions to create a branching database 		<p>Databases—Investigate</p> <ul style="list-style-type: none"> • I can perform searches on an existing database • I can amend an existing db • I can add/remove records/fields • I can interrogate data using 2 or more criteria • I can construct own database • I can research info & create own fields 	<p>Spreadsheets—Excel</p> <ul style="list-style-type: none"> • I can explain purpose and use of spreadsheets • I can correctly format rows/columns • I can use simple formulas • I can extract and explain information from a spreadsheet • I can evaluate/amend variables (Half as much/twice as many) • I can recognise different file formats (PDF, jpeg, .doc., .pub, pptx, gif, exe)

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Computer Science	Algorithms and Programming	<p>BeeBot</p> <ul style="list-style-type: none"> • I can experiment with control models on screen • I can give instructions one at a time to move BeeBot • I can use 90° turns • I can create a series of instructions (algorithms) to complete a sequence (finish a level) 	<p>Alex</p> <ul style="list-style-type: none"> • I can give a set of instructions (algorithm) to move onscreen ALEX • I can work with moving variables when controlling ALEX • I can plan an algorithm which uses moving variables • I can check/debug algorithm <p>Scratch</p> <ul style="list-style-type: none"> • I can use turns with a variety of different ° • I can draw regular shapes using repeat command • I can make accurate predictions • I can debug with support where needed <p>Light Boxes</p> <ul style="list-style-type: none"> • I can combine sequences of instructions to turn devices on and off • I can experiment with variables to control models • I can debug with support where needed 	<p>Kodu</p> <ul style="list-style-type: none"> • I can understand input and output • I can explain how an algorithm works • I can create own algorithms which have repetitions and sequences • I can debug and refine a series of instructions • I can check, amend and alter a game to make improvements 	<p>Augmented Reality:</p> <ul style="list-style-type: none"> • I can use augmented reality (T-shirt) to enhance learning in other subjects • I can select a suitable image for use in own AR • I can record and save an audio clip • I can link audio and visual images to create an augmented reality document • I can use an app to create an augmented reality document • I can play the augmented reality document • I can edit and improve my document to enhance the presentation

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Computer Science - Continued	Designing/Creating			<p><u>SketchUp</u></p> <ul style="list-style-type: none"> • I can use the tools to make 2D into 3D shapes • I can plan, design and create a 3D model of my own design • I can select and use tools independently to suit the task • I can revise and edit my own work 	<p><u>STOP Motion Animations—Film Making</u></p> <ul style="list-style-type: none"> • I can use DT skills to create silhouettes, props and back-grounds for an animation I am making • I can set up digital photography equipment to function for a purpose • I can take a series of photos which link to make an animation • I can link images to create a gif • I can link images to create animations/films • I can source, select and add music to a film • I can watch and critically evaluate my own and others work • I can edit and improve my own work based on evaluations I/ others have made