Computing Skills Progression

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Systems and Networks	Can use a mouse, keyboard and screen	Can use information technology for different purposes	Can use different input and output devices	Can use the internet to collaborate on projects	Can use search technologies effectively	
Creating Media: Text	Can type words correctly on a digital device Can use the spacebar, delete button and enter button correctly	Can copy and paste images and text Can use caps lock for capital letters Can add images to a document	Can use my left and right hand correctly when typing Can edit the style and effect of my text and images Can use cut, copy and paste to duplicate and organise text	Can combine digital images from different sources, objects, and text to make a final piece of a variety of tasks Can use text shortcuts such as cut, copy and paste Can use font sizes appropriately for audience and purpose	Can apply other useful effects to documents such as hyperlinks Can import sounds to accompany and enhance the text in a document Can organise and reorganise text on screen to suit a purpose	Can choose the best application for a given task Can format text to suit a purpose. Can publish my documents online
Creating Media: Images	Can use a paint/drawing app to create a digital image Can cut out an image to layer on another image.	Can edit a photo with simple tools (crop, filters, mark up)	Can create a simple stop motion animation Can improve stop motion animation clips with techniques like onion skinning Can use animation tools	Can enhance digital images and photographs using crop, brightness, contrast & resize	Can sequence clips of mixed media in a timeline and record a voiceover Can use tools to improve my videos (adding titles, music and split screen) Can create videos using a range of media	Can use a 3D drawing app to create a realistic representation of world objects

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Creating Media: Sounds	Can record my voice and add different effects.	Can create a musical composition using software Can record my voice over a compositions to perform a song.	Can create and edit purposeful compositions using music software to create mood or a certain style	Can edit sound effects for a purpose	Can add voice over and edit sound clips	Can compose a soundtrack that can be added to a film project.
Data and Information	Can sort images or text into two or more categories on a digital device Can collect data on a topic. Can create a tally chart and pictogram.	Can sort digital objects into a range of charts	Can create a branching database using questions	Can use data loggers Can present data in a variety of ways		Can input data into a spreadsheet Can export the data in a variety of ways Can use simple formulae to solve calculations including =sum and other statistical functions Can write spreadsheet formula to solve more challenging problems

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Programming	Can write simple algorithms Can debug simple algorithms	Can write algorithms and create programs Can use logical reasoning to predict the outcome of algorithms and programs Can implement simple algorithms on digital devices	Can design and create algorithms and programs Can decompose tasks (such as animations) into separate steps to create an algorithm Can use repetition in algorithms and programs	Can use abstraction to focus on what's important in my design Can write precise algorithms for use when programming Can use simple selection in algorithms and programs Can use logical reasoning to detect and correct errors in programs Can use various forms of output	Can create programs by decomposing them into smaller parts Can use conditions in repetition commands Can work with variables Can evaluate my work and identify errors	Can use a range of sequence, selection and repletion commands combined with variables as required Can create procedures to hide complexity in programs Can write precise algorithms for use when programming Can decompose code into sections for effective debugging Can critically evaluate work and suggest improvements