Progression of skills - Computing

	EYFS	Year 1	Year 2	End of key stage expectation
Uses of Information Technology		Can I name the parts of a computer?	Can I identify some examples of computers? Can I describe some uses of computers? Can I identify that a computer is a part of IT? Can I I identify examples of IT? Can I sort school IT by what it's used for? Can I identify that some IT can be used in more than one way? Can I find examples of information technology? Can I sort IT by where it is found? Can I talk about uses of information technology?	

			Can I recognise common types of technology? Can I demonstrate how IT devices work together? Can I say why we use IT? Can I identify the choices that I make when using IT? Can I use IT for different types of activities? Can Iexplain the need to use IT in different ways?	
Programming	Can I use a variety of electronic toys in play situations (dance mats, Bee-Bots, remote controlled toys) using basic directional language? Can I explore toys that simulate control devices e.g. traffic lights, scanner, microwave, cash tills? Can I explore the commands needed to control a range of electronic toys? Can I show awareness of everyday devices that sense data e.g. bar codes, metal detectors, sound recorders, light sensors, automatic doors, thermometers? Can I program a simple floor robot (Bee-Bot / Roamer) to	Can I move a programmable toy in different directions, by giving and following instructions? Can I combine commands to follow a route? Can I explore outcomes when instructions are given in different orders? Can I explain what an algorithm is? Can I describe and write algorithms to complete specific tasks?	Can I plan out and enter a sequence of commands to carry out specific tasks? Can I reorder a sequence of instructions and correct errors in programs (debug)? Can I explain what a program is? Can I predict the outcome of a program? Can I explore a computer simulation that copies real life?	Can I understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions?

	carry out a short sequence of steps? Can I respond to simple cause and effect devices (push a button to hear a sound)? Can I play with a simple adventure program or simulation / role play software, and begin to compare reality with virtual world? Can I respond appropriately to what happens in simulations and begin to notice that different responses result in different outcomes?			
Data	Can I begin to develop simple classification skills by carrying out simple sorting activities away from the computer? Can I continue to develop simple classification skills by carrying out simple sorting activities using ICT? Can I produce simple pictograms with help?	Can I sort items into sets or simple tables? Can I draw a simple graph, e.g. pictogram / block graph? Can I explain what the graph shows?	Can I read and use a simple database to find information? Can I add information to a database? Can I collect and record data purposefully? Can I present data in a bar chart? Can I answer and ask questions about bar charts?	Can I create and debug simple programs? Can I use logical reasoning to predict the behaviour of simple programs? Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content?
Communication	Can I develop mouse control? Can I use a paint program to make marks, using simple	Can I switch on and log into a computer? Can I use a mouse to click and drag?	Can I identify examples of computers? Can I develop mouse control?	Can I use technology purposefully to create, organise, store, manipulate and retrieve digital content? Can I recognise common

	tools, to communicate their ideas? Can I use different forms of electronic communication in free play? Can I begin to use a keyboard to produce text on screen, and develop familiarity with letters, numbers, backspace, arrow keys and space bar?	Can I use a paint program to make marks, using simple tools, to communicate my ideas? Can I use different forms of electronic communication in free play? Can I begin to use a keyboard to produce text on screen, and develop familiarity with letters, numbers, backspace, arrow keys and space bar?	Can I edit and improve my work by changing, adding or removing words? Can I change the font size, colour and style to change my work?	uses of information technology beyond school?
Digital literacy and research Online safety	Can I use a shortcut to navigate to a specific website? Can I use appropriate buttons, menus and hyperlinks to navigate a teacher selected website, CD-ROM or stored information? Can I, with support, use appropriate websites or CD ROMs to locate small amounts of information / images?	Can I explore a website using buttons, menus and hyperlinks? Can I use the 'back' button? Can I read words, look at pictures and watch videos on a website to find information? E-safety: Can I understand that I need to follow rules to keep safe online?	Can I find out facts by navigating websites? Can I understand that each website has a unique address? Can I navigate to a website via favourites and typing in address? Can I understand that not all the information found on the internet will be accurate or useful? Can I use a search engine to find facts using key word searches? E-safety Can I understand that the messages or images I put online leaves a trail?	Can I use technology safely and respectfully, keeping personal information private? Can I identify where to go for help and support when I have concerns about content or contact on the internet or other online technologies?

			Can I understand how to behave safely and respectfully online? Can I understand what to do if I find something inappropriate online, & where to go for help? Can I understand how to stay safe by going to appropriate websites?	
Multimedia	Can I use multimedia equipment, e.g. digital cameras, video cameras, webcams and visualisers, to capture still and moving images? Can I explore ways of making and listening to sounds using simple programs and devices?	Can I paint with different colours using undo or eraser to correct mistakes? Can I use different tools such as brush, pen, line, shape and fill? Photography: Can I use a digital still camera to take a picture? Can I understand the need to frame the image and keep the camera still? Audio: Can I record an audio recording? Can I play back an audio recording?	Can I discuss the quality of my images and make decisions e.g. delete a blurred image? Can I use a photograph within a document? Can I combine a set of photographs to tell a story? Video: Can I capture video? Can I understand the need to frame the image and move the camera carefully? Can I play back a video recording?	To use technology purposefully to create, organise, store, manipulate and retrieve digital content