

Skills Progression

Subject area: Computing

Skill	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Multimedia</p>	<p>I can use paint tools such as brushes, pens, stamps and fill.</p> <p>I can logon to the school network.</p> <p>I can find, save, change and print my work.</p> <p>I can use the spacebar, backspace, enter, shift & arrow keys.</p> <p>I am starting to use two hands to type.</p> <p>I can use Word to write a short text.</p>	<p>I can use sound recorders, sound buttons & talking postcards to record & playback sounds.</p> <p>I can use software to record music and sounds.</p> <p>I can use software to change my music</p> <p>I can find, edit and save my music.</p> <p>I can record simple videos.</p> <p>I can arrange short clips to make a film.</p> <p>I can add titles & credits</p> <p>I can select text and make simple changes such as bold, italic and underlined.</p>	<p>I can use cameras to take images.</p> <p>I can use the internet to find images.</p> <p>I can find and combine images to create my own work.</p> <p>I can use the print screen function to capture an image.</p> <p>I can select certain areas of an image & resize or rotate it.</p> <p>I can edit pictures using different tools in paint or photo manipulation software.</p> <p>I can create a new Ebook & add or remove pages.</p> <p>I can combine text & images on each page.</p> <p>I can embed sound clips in my Ebook.</p> <p>I can add information about the author & title.</p>	<p>I can plan a simple animation.</p> <p>I can take a series of photos to create an animation.</p> <p>I can move photos in my animation to create movement.</p> <p>I can edit & improve my animation.</p> <p>I can capture a video for a purpose.</p> <p>I can discuss which clips are good & which I need to shoot again.</p> <p>I can trim & edit clips and arrange them to tell a story.</p> <p>I can add titles, credits & special effects & discuss how these affect the quality of my video.</p>	<p>I can create a multimedia E-Book that combines, text, graphics, audio & video.</p> <p>I can add author data for publishing & publish my book.</p> <p>I can collect audio from different sources including internet clips & my own recordings.</p> <p>I can create a multi-track recording including special effects.</p> <p>I can edit & improve my recording</p>	<p>I can plan a multi-scene animation including characters, set, camera angles and special effects.</p> <p>I can use stop animation software to shoot my animation frames.</p> <p>I can use features such as onion skin to position my characters.</p> <p>I can adjust the number of frames & playback rate to improve the quality of my animation.</p> <p>I can add sound effects or a soundtrack to my animation.</p> <p>I can use special effects, add text, titles & credits to my animation.</p> <p>I can publish my animation & save it so I can share it.</p> <p>I can storyboard & capture videos for a purpose.</p> <p>I can plan and use transitions & special effects to enhance my video.</p>

			<p>I can use font sizes, colours & effects to convey meaning.</p> <p>I can align text to the left, right or centre.</p> <p>My typing is improving in speed & I use both hands.</p>			<p>I can plan, capture, edit & improve the audio track of my video.</p> <p>I can publish my video in different formats for different purposes.</p>
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Programming	<p>I can give instructions e.g. straight on or turns.</p> <p>I can explore what happens when I give a set of instructions</p> <p>I can give a sequence of instructions</p> <p>I know that algorithms are a set of instructions.</p> <p>I understand that computers are controlled by instructions.</p> <p>I know that computers need more precise instructions than people do.</p>	<p>I can use the timer, repeat & when commands in a series of instructions.</p> <p>I can plan a short story for a character/sprite & write the commands for this.</p> <p>I can edit & improve a series of commands.</p> <p>I can use Logo to create a sequence of instructions including right angle turns.</p> <p>I can write instructions to create simple shapes e.g. a square.</p> <p>I can talk about how to improve my instructions.</p>	<p>I can use a variety of inputs in my code., e.g. key presses, user information, swipe.</p> <p>I can confidently use the repeat command in a series of instructions.</p> <p>I can use the “if ... then ...” command to introduce variables to my code.</p> <p>I can write a simple Logo program to produce a line drawing.</p> <p>I can use Pen up & Pen down commands.</p> <p>I can write a program to draw geometric patterns.</p> <p>I know algorithms can be shown as symbols, buttons or in a language like logo.</p>	<p>I can create a background & a sprite for a game.</p> <p>I can add inputs to control my sprite.</p> <p>I can use conditional sentences in my game (“if... then...” or “if... else...”)</p> <p>I can create a 3D world for a game use 2diy3D</p> <p>I can add treasure & bad guy sprites.</p> <p>I can add obstacles such as water, lava or fire.</p> <p>I can edit scenery, obstacles or characters</p> <p>I can add titles & instructions.</p> <p>I know it can be easier to plan, test and correct parts of an algorithm separately.</p> <p>I understand a program as a sequence of statements written in a programming language</p>	<p>I can use external triggers & infinite loops to control characters & objects in my program.</p> <p>I can create & edit variables</p> <p>I can use conditional statements.</p> <p>I know that Algorithms can be broken down into smaller parts (procedures), each of which is also an algorithm.</p>	<p>I can declare variables.</p> <p>I am confident using a range of different statements e.g. timers, repeat, if .. then.. else</p> <p>I can use buttons & functions.</p> <p>I can use statements that compare different variables e.g. less than/greater than</p> <p>I can design my own game including sprites, backgrounds, scoring and/or timers.</p> <p>My game uses conditional statements, loops, variables and broadcast messages.</p> <p>My game finishes if the player wins or loses and the player knows if they have won or lost.</p> <p>I can evaluate the effectiveness of my game and debug if required.</p> <p>I know that computers can be programmed so they appear to respond ‘intelligently’ to certain inputs.</p>

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E-Safety/Online	<p>I can talk about websites I use</p> <p>I can explore websites using menus, hyperlinks & arrows.</p> <p>I can use the back button</p> <p>I can search for things with an adult to help me.</p> <p>I can talk about whether or not the information I see on the internet is true.</p> <p>I know what to do if I see something that upsets me online.</p> <p>I understand what might be personal information.</p>	<p>I can recognise an email address.</p> <p>I can find the @ symbol on the keyboard.</p> <p>With my class I can open, reply and send an email.</p> <p>I consider other people's feelings when I use the internet.</p> <p>I can identify information that is obviously false.</p> <p>Identify personal information that should be kept private.</p>	<p>I can type in a URL to find a website.</p> <p>I can add a website to my favourites.</p> <p>I can use a search engine to find different media e.g. text, images, videos.</p> <p>I can think of how to write a search to answer my question.</p> <p>I can talk about how reliable the information I find online is.</p> <p>I think before I send something online.</p> <p>I understand what sort of behaviour online would be unfair or unkind</p> <p>I question if what I read online is right or true.</p>	<p>I can open, read, reply to and send emails.</p> <p>I can attach a file to my email.</p> <p>I can download & save files from an email.</p> <p>I can email more than one person at once or participate in group emails by using "reply to all."</p> <p>I can load Skype & add a contact</p> <p>I can make & receive voice & video calls.</p> <p>I can adjust the settings to improve the quality of the call.</p> <p>I can give examples of good & bad behaviour online.</p> <p>I tell an adult if anything worries me online.</p> <p>I can make judgements to help me stay safe online.</p> <p>I can recognise sites & platforms that have social networking</p>	<p>I can use advanced search functions in Google e.g. quotations.</p> <p>I understand that websites like Wikipedia are made by users. I can discuss how this might affect its reliability.</p> <p>I use strategies to check the reliability of information e.g. cross checking with books, comparing with a trusted site.</p> <p>I can use website names & domain names (e.g. .gov, .org) to help me decide if a website is reliable.</p> <p>I understand that files can be saved to "cloud" servers such as Microsoft OneDrive and Dropbox.</p> <p>I can upload & download files from a cloud server.</p> <p>I can sync my files between different devices & know why this is important.</p> <p>I can judge when to answer a question online & when not to.</p> <p>I understand how to change my privacy settings & how this keeps me safe online.</p>	<p>I can register & set up my own blog.</p> <p>I can change the appearance of my blog using background images, fonts, effects etc.</p> <p>I can create a new post, save it as a draft & publish it.</p> <p>I can embed pictures, hyperlinks & videos into my blog posts.</p> <p>I can edit my blog by removing posts I no longer want.</p> <p>I can interact with other blogs & build my blog throughout the year.</p> <p>I can use the flag & report buttons to report content online that upsets me.</p> <p>I know how CEOP can help me online.</p>

				features (where I can talk to other people.)	<p>I can explain what is good online behaviour.</p> <p>I behave as a good citizen online or friend, not as a “digital bystander” who does nothing when things are wrong.</p> <p>I use different websites to check the information I have found online.</p> <p>I can find & give the website address for any resource or information I found online.</p>	
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<p>Computers all around us</p>	<p>I can name devices that can go on the internet and some that can't.</p> <p>I can identify what the computers inside everyday objects might do.</p> <p>I understand that computers use programs of instructions to complete tasks.</p>	<p>I recognise that lots of different devices can connect us to each other e.g. PSP. X-Box, not just phones & computers.</p>	<p>I understand that information can be transferred between computers.</p> <p>I understand that wires connect computers together to make a network.</p> <p>I understand that it can appear a file is saved on one computer when actually it is on another.</p> <p>I understand that sometimes networks do not have wires.</p>	<p>I understand how computers connect to each other to make a network.</p> <p>I understand that the Internet is a large network made up of many different types of computers in different places.</p> <p>I know which devices I use connect to the Internet.</p> <p>I understand the difference between software & the computer's operating system.</p>	<p>I understand the different ways a device can connect to a network e.g. using a cable, a router or through wi-fi.</p> <p>I understand why devices connect to the Internet.</p> <p>I can explain and name the different parts that make up the inside of a computer or device.</p> <p>I know that there are different operating systems but that they do a similar job.</p>	<p>I understand how computers are put together.</p> <p>I understand the function of the different components of a computer.</p> <p>I understand how different operating systems work.</p>

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Data handling	<p>I know that images give information.</p> <p>I can explain what a pictogram is showing me.</p> <p>I can enter data into a pictogram.</p> <p>I can sort data into simple lists.</p>	<p>I can place objects and pictures in a simple table.</p> <p>I can make a simple Y/N tree diagram to sort information</p> <p>I can create & search a simple branching database.</p>	<p>I can choose information to put into a data table.</p> <p>I recognise which information is suitable for my topic.</p> <p>I can design a questionnaire to collect information.</p> <p>I can sort & organise information to use in other ways.</p>	<p>I can create and search branching databases. (These should be more complex than those in Y2.)</p> <p>I can create a database from information I have selected.</p> <p>I can use information in different ways e.g. forms, databases, spreadsheets, charts & graphs.</p>	<p>I can create forms to collect data.</p> <p>I can enter data accurately.</p> <p>I know how to check for & spot inaccurate data.</p> <p>I know how to use simple formulas & I can use these to change my spreadsheet model.</p> <p>I can create graphs & charts from my spreadsheet.</p>	<p>Create data collection forms and enter the information from them accurately.</p> <p>I can check for and spot inaccurate data.</p> <p>I can use formulae confidently in my spreadsheets.</p> <p>I can choose which type of chart is best to use for my data.</p> <p>I can sort and filter information.</p> <p>I know that changing my calculation will change my data.</p>