



Skills Breakdown for Computing

Year 1		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can create a simple series of instructions - left and right? • I can record their routes? • I understand forwards, backwards, up and down? • I can put two instructions together to control a programmable toy? • I can begin to plan and test a Bee-bot journey? 	<ul style="list-style-type: none"> • I can capture images with a camera? • I can print out a photograph from a camera with help? • I can record a sound and play it back? • I can enter information into a template to make a graph? • I can talk about the results shown on a graph? 	<ul style="list-style-type: none"> • I recognise what an email address looks like? • I can join in sending a class email? • I can use the @ key and type an email address? • I can word process ideas using a keyboard? • I can use the spacebar, back space, enter, shift and arrow keys? • I can print out a page from the internet?
Greater Depth		
<ul style="list-style-type: none"> • I can record pupils' voices as a voice over? • I can use a teacher prepared photo story to create a slideshow of photos? 		

Year 2		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can predict the outcomes of a set of instructions? • I can use right angle turns? • I can use the repeat commands? • I can test and amend a set of instructions? • I can write a simple program and test it? • I can predict what the outcome of a simple program will be? 	<ul style="list-style-type: none"> • I can find information on a website? • I can click links in a website? • I can print a web page to use as a resource? • I can experiment with text, pictures and animation to make a simple slide show? • I can use the shape tools to draw? 	<ul style="list-style-type: none"> • I can send and reply to messages sent by a safe email partner (within school)? • I can word process a piece of text? • I can insert/delete a word using the mouse and arrow keys? • I can highlight text to change its format (B, U, I)?
Greater Depth		
<ul style="list-style-type: none"> • I can create a presentation in a small group and record the narration? • I can record sounds into software and playback? • I can insert pre-recorded sounds into a presentation? • I can capture still and moving images? 		

Year 3		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can experiment with variables to control models? • I can use 90 degree and 45 degree turns? • I can give an on-screen robot directional instructions? • I can draw a square, rectangle and other regular shapes on screen, using commands? • I can write more complex programs? 	<ul style="list-style-type: none"> • I can review images on a camera and delete unwanted images? • I can download images from a camera into files on the computer? • I can use photo editing software to crop photos and add effects? • I can manipulate sound when using simple recording story boarding? 	<ul style="list-style-type: none"> • I can use the email address book? • I can open and send an attachment?
Using the internet	Databases	Presentation
<ul style="list-style-type: none"> • I can find relevant information by browsing a menu. • I can search for an image, copy and paste it into a document? • I can use 'Save picture as' to save an image to the computer? • I can copy and paste text into a document? • Do they begin to use note making skills to decide what text to copy? 	<ul style="list-style-type: none"> • I can input data into a prepared database? • I can sort and search a database to answer simple questions? • I can use a branching database? 	<ul style="list-style-type: none"> • I can create a presentation that moves from slide to slide and is aimed at a specific audience? • I can combine text, images and sounds and show awareness of audience? • Do they know how to manipulate text, underline text, centre text, change font and size and save text to a folder?
Greater Depth		
<ul style="list-style-type: none"> • I can search by keyword using a child friendly search engine? • I can bookmark a page into your favourites? • I can contribute to a class blog? • I can use repeat command in logo to create a pattern? 		

Year 4		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can use repeat instructions to draw regular shapes on screen, using commands? • I can experiment with variables to control models? • I can make turns specifying the degrees? • I can give an on-screen robot specific directional instructions that takes them from x to y? • I can make accurate predictions about the outcome of a program they have written? 	<ul style="list-style-type: none"> • I can capture images using webcams, screen capture, scanning, visualiser and internet? • I can choose images and download into a file? • I can download images from the camera into files on the computer? • I can copy graphics from a range of sources and paste into a desktop publishing program? 	<ul style="list-style-type: none"> • Do they appreciate the benefits of ICT to send messages and to communicate? • I can use the automatic spell checker to edit spellings?
Using the internet	Databases	Presentation
<ul style="list-style-type: none"> • I can use a search engine to find a specific website? • I can use note-taking skills to decide which text to copy and paste into a document? • I can use tabbed browsing to open two or more web pages at the same time? • I can open a link to a new window? • I can open a document (pdf) and view it? 	<ul style="list-style-type: none"> • I can input data into a prepared database? • I can sort and search a database to answer simple questions? • I recognise what a spread sheet is? • I can use the terms cells, rows and columns? • I can enter data, highlight it and make bar charts? 	<ul style="list-style-type: none"> • I can create a lengthy presentation that moves from slide to slide and is aimed at a specific audience? • I can insert sound recordings into a multi media presentation? • I know how to manipulate text, underline text, centre text, change font and size and save text to a folder?
Greater Depth		
<ul style="list-style-type: none"> • I can use photo editing software to crop photographs and add effects? • I can copy and paste the graph/bar chart and use it in a WP document? • I can use animation in their presentation? 		

Year 5		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can combine sequences of instructions and procedures to turn devices on or off? • I understand input and output? • I can use an ICT program to control an external device that is electrical and/or mechanical? • I can use ICT to measure sound or light or temperature using sensors? • I can explore 'What is' questions by playing adventure or quest games? • I can write programs that have sequences and repetitions? 	<ul style="list-style-type: none"> • I can listen to streaming audio such as online radio? • I can download and listen to podcasts? • I can produce and upload a podcast? • I can manipulate sounds using Audacity? • I can select music from open sources and incorporate it into multimedia presentations? • I can work on simple film editing 	<ul style="list-style-type: none"> • I can use instant messaging to communicate with class members? • I can conduct a video chat with someone elsewhere in the school or in another school? • I can use the word count tool to check the length of a document? • I can use bullets and numbering tools?
Using the internet	Databases	Presentation
<ul style="list-style-type: none"> • I can use a search engine using keyword searches? • I can compare the results of different searches? • I can decide which sections are appropriate to copy and paste from at least two web pages? • I can save stored information following simple lines of enquiry? • I can download a document and save it to the computer? 	<ul style="list-style-type: none"> • I can create a formula in a spreadsheet and then check for accuracy and plausibility? • I can search databases for information using symbols such as = > or <? • I can create databases planning the fields, rows and columns? • I can create graphs and tables to be copied and pasted into other documents? 	<ul style="list-style-type: none"> • I can use a range of presentation applications? • I consider audience when editing a simple film? • I know how to prepare and then present a simple film? • I can use ICT to record sounds and capture both still and video images? • I can make a home page for a website that contains links to other pages? • I can capture sounds, images and video?
Greater Depth		

- I can make a multimedia presentation that contains: sound; animation; video and buttons to navigate?
- I can save an image document as a gif or i peg. file format using the 'save as' command?
- I can make an information poster using graphics skills to good effect?

Year 6		
Algorithms and Programs	Data Retrieving and Organising	Communicating
<ul style="list-style-type: none"> • I can explain how an algorithm works? • I can detect errors in a program and correct them? • I can use an ICT program to control a number of events for an external device? • I can use ICT to measure sound, light or temperature using sensors and interpret the data? • I can explore 'what if' questions by planning different scenarios for controlled devices? • I can use input from sensors to trigger events? • I can check and refine a series of instructions? 	<ul style="list-style-type: none"> • I can explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc.)? • I can add special effects to alter the appearance of a graphic? • I can 'save as' gif or i peg. wherever possible to make the file size smaller (for emailing or downloading)? • I can make an information poster using their graphics skills to good effect? 	<ul style="list-style-type: none"> • I can confidently choose the correct page set up option when creating a document? • I can confidently use text formatting tools, including heading and body text? • I can use the 'hanging indent' tool to help format work where appropriate (e.g. a play script)?
Using the internet	Databases	Presentation
<ul style="list-style-type: none"> • I can contribute to discussions online? • I can use a search engine using keyword searches? • I can use complex searches using such as '+' 'OR' "Find the phrase in inverted commas"? 	<ul style="list-style-type: none"> • I can collect live data using data logging equipment? • I can identify data error, patterns and sequences? • I can use the formulae bar to explore mathematical scenarios? • I can create their own database and present information from it? 	<ul style="list-style-type: none"> • I can present a film for a specific audience and then adapt same film for a different audience? • I can create a sophisticated multimedia presentation
Greater Depth		
<ul style="list-style-type: none"> • I can incorporate graphics where appropriate, using the most effective text wrapping formats? • I can conduct a video chat with more than one person at a time? • I can compare the information provided on two tabbed websites looking for bias and perspective? 		