



Computing Skills Progression

	Coding and Programming	Data	Communication	Digital Literacy	Multimedia
EYFS	<p>CS0.1 Use a variety of electronic toys in play situations (dance mats, Bee-Bots, remote control toys) using basic directional language</p> <p>CS0.2 Explore toys that simulate control devices e.g. traffic lights, scanner, microwave, cash tills</p> <p>CS0.3 Explore the commands needed to control a range of electronic toys</p> <p>CS0.4 Be aware of everyday devices that sense data e.g. bar codes, metal detectors, sound recorders, light sensors, automatic doors, thermometers</p> <p>CS0.5 Program a simple floor robot (Bee-Bot / Roamer) to carry out a short sequence of steps</p> <p>MS0.1 Respond to simple cause and effect devices (push a button to hear a sound)</p> <p>MS0.2 Play with a simple adventure program or simulation / role play software, and begin to compare reality with virtual world</p> <p>MS0.3 Respond appropriately to what happens in simulations and begin to notice that different responses result in different outcomes</p>	<p>HD0.1 Begin to develop simple classification skills by carrying out simple sorting activities away from the computer</p> <p>HD0.2 Continue to develop simple classification skills by carrying out simple sorting activities using ICT</p> <p>HD0.3 Produce simple pictograms with help</p>	<p>CO.1 Develop mouse control</p> <p>CO.2 Use a paint program to make marks, using simple tools, to communicate their ideas</p> <p>CO.5 Use different forms of electronic communication in free play</p> <p>CO.6 Begin to use a keyboard to produce text on screen, and develop familiarity with letters, numbers, backspace, arrow keys and space bar</p>	<p>RO.1 Use a shortcut to navigate to a specific website</p> <p>RO.2 Use appropriate buttons, menus and hyperlinks to navigate a teacher selected website, CD-ROM or stored information</p> <p>RO.3 With support, use appropriate websites or CD ROMs to locate small amounts of information / images</p>	<p>CO.3 Use multimedia equipment, e.g. digital cameras, video cameras, webcams and visualizers, to capture still and moving images</p> <p>CO.4 Explore ways of making and listening to sounds using simple programs and devices</p>
Year 1	<p>P1.1 I can move a programmable toy in different directions, by giving and following instructions</p> <p>P1.2 I can combine commands to follow a route</p> <p>P1.3 I can explore outcomes when a instructions are given in different orders</p> <p>P1.4 I can explain what an algorithm is</p> <p>P1.5 I can describe and write algorithms to complete specific tasks</p>	<p>Graphs:</p> <p>D1.1 I can sort items into sets or simple tables</p> <p>D1.2 I can draw a simple graph, e.g. pictogram / block graph</p> <p>D1.3 I can explain what the graph shows</p>	<p>C1.1 I can use letters, basic punctuation, spacebar and enter key to type words and sentences quickly</p> <p>C1.2 I can use backspace to make corrections</p> <p>C1.3 I can use shift key for punctuation</p>	<p>R1.1 I can explore a website using buttons, menus and hyperlinks</p> <p>R1.2 I can use the 'back' button</p> <p>R1.3 I can read words, look at pictures and watch videos on a website to find information</p> <p>E-safety:</p> <p>R1.4 I know I need to follow rules to keep safe online</p> <p>R1.5 I know what private information is and that I shouldn't share it online</p>	<p>M1.1 I can paint with different colours using undo or eraser to correct mistakes</p> <p>M1.2 I can use different tools such as brush, pen, line, shape and fill</p> <p>Photography:</p> <p>M1.3 I can use a digital still camera to take a picture</p> <p>M1.4 I understand the need to frame the image and keep the camera still</p> <p>Audio:</p> <p>M1.5 I can record an audio recording</p> <p>M1.6 I can play back an audio recording</p>

<p style="text-align: center; font-size: 24px;">Year 2</p>	<p>P2.1 I can plan out and enter a sequence of commands to carry out specific tasks P2.2 I can reorder a sequence of instructions and correct errors in programs (debug) P2.3 I can explain what a program is P2.4 I can predict the outcome of a program Simulations: P2.5 I can explore a computer simulation that copies real life</p>	<p>D2.1 I can read and use a simple database to find information D2.2 I can add information to a database D2.3 I can collect and record data purposefully D2.4 I can present data in a bar chart D2.5 I can answer and ask questions about bar charts</p>	<p>C2.1 I can edit and improve my work by changing, adding or removing words C2.2 I can change the font size, colour and style to change my work</p>	<p>Research: R2.1 I can find out facts by navigating websites R2.2 I know each website has a unique address R2.3 I can navigate to a website via favourites and typing in address R2.4 I know not all the information found on the internet will be accurate or useful R2.5 I can use a search engine to find facts using key word search</p> <p>E-safety: R2.6 I know what to do if I find something inappropriate online, & where to go for help R2.7 I know how to stay safe by going to appropriate websites R2.8 I know that the messages or images I put online leaves a trail R2.9 I know how to behave safely and respectfully online</p>	<p>M2.1 I can discuss the quality of my images and make decisions e.g. delete a blurred image M2.2 I can use a photograph within a document M2.3 I can combine a set of photographs to tell a story Video: M2.4 I can capture video M2.5 I understand the need to frame the image and move the camera carefully M2.6 I can play back a video recording</p>
<p style="text-align: center; font-size: 24px;">Year 3</p>	<p>P3.1 I can refine a program by using the repeat command P3.2 I can create a procedure (group of commands) to do a specific task, draw a specific shape P3.3 I can solve problems by breaking them into smaller parts Simulations: P3.4 I can explain how to control a simulation P3.5 I can explain how a simulation is and isn't realistic</p>	<p>D3.1 I can create a branching database to sort and organise items D3.2 I can filter and sort records in a database to answer questions D3.3 I can design a questionnaire to collect information, and display the information in a graph or table</p>	<p>Word processing: C3.1 I can use cut, copy and paste to reorder content C3.2 I can use and resize graphics within my work C3.3 I can use spell check to aid my writing</p> <p>Presentations: C3.4 I can type text and insert images onto pages C3.5 I can add text effects and move items around to find the best layout</p> <p>Online collaboration: C3.6 I can send and reply to online messages, such as email, respectfully C3.7 I can add and open attachments C3.8 I know not to open messages and attachments from strangers</p>	<p>Research: R3.1 I can type in a URL to find a website R3.2 I can search online for images and information safely R3.3 I can talk about the reliability of information on the internet E-safety: R3.4 I can present the information I have found and share it with others R3.5 I know why we need to keep passwords safe and secure</p>	<p>Creating images: M3.1 I can use the print screen function to capture an image M3.2 I can select and use a certain area of an image Video: M3.3 I can zoom in and out on subjects appropriately M3.4 I can download the video files from the video camera M3.5 I can combine video clips to create a video M3.6 I can add simple titles and credits Audio: M3.7 I can re-record an audio recording to improve clarity M3.8 I can download and save a recording</p>

<p style="text-align: center; font-size: 24px; font-weight: bold;">Year 4</p>	<p>Programming: P4.1 I can use if...then command within a series of instructions P4.2 I can test existing programs to see how they could be improved P4.3 I can write a program for a specific purpose, incorporating features such as inputs, repetition and procedures</p>	<p>Graphs: D4.1 I can present data in a graph, selecting the most appropriate layout D4.2 I understand the difference between discrete and continuous data D4.3 I can answer questions relating to graphs, and pose my own questions D4.4 I can use my graph in a document / presentation to share findings with others</p> <p>Spreadsheets: D4.5 I can add text and numbers to spreadsheet cells D4.6 I can add simple formulae: +-* / D4.7 I can change the appearance of cells, e.g. size, borders and colours D4.8 I can copy and paste formulae within a spreadsheet</p>	<p>Word processing: C4.1 I can different layouts and effects (such as text box, columns, tables, justification, borders, background colour) to refine and improve my work</p> <p>Presentations: C4.2 I can add a background colour to improve my work C4.3 I can add slide transitions and animation effects</p> <p>Online collaboration: C4.4 I know how and why to keep my personal information private C4.5 I can display myself appropriately online, e.g. avatar, code name C4.6 I can act appropriately & respectfully online C4.7 I know how to deal with cyberbullying</p>	<p>Research: R4.1 I can use more complex search criteria to narrow down my search R4.2 I know that not all websites are accurate and can check information using a different site R4.3 I can make notes from information found on websites to present my findings R4.4 I know what plagiarism is and when I can use the work of others</p>	<p>Creating images: M4.1 I can group, copy and move shapes within a picture M4.2 I can order shapes / images by sending them to the back / front Photography: M4.3 I can crop and / or rotate an image where needed M4.4 I can adjust the colours on a photo Animation: M4.5 I can plan an animation using a storyboard M4.6 I can shoot frames to combine into an animation M4.7 I can edit an animation to improve it / make it more realistic M4.8 I can put sounds over an animation M4.9 I can add titles and photos into an animation M4.10 I can plan and create an animation for a given purpose</p>
<p style="text-align: center; font-size: 24px; font-weight: bold;">Year 5</p>	<p>Programming: P5.1 I can plan and test my algorithms and programs, detecting and correcting errors as needed P5.2 I can use variables in programs P5.3 I can design and write a program that controls or simulates physical systems and sensors</p>	<p>Databases: D5.1 I can interrogate a database using more complex searches D5.2 I can design and create a database D5.3 I can use information in a database to create a graph in order to answer questions</p> <p>Spreadsheets: D5.4 I can use simple functions, e.g. SUM, AVERAGE, to solve problems D5.5 I can use brackets to organise formulae D5.6 I can change data in a formula to answer 'What if?' questions D5.7 I can change the format of cells appropriately D5.8 I can create a graph using spreadsheet data</p>	<p>Word processing: C5.1 I can develop consistency across the document</p> <p>Presentations: C5.2 I can add multimedia elements, e.g. sounds, animation C5.3 I can trigger animations or link to other slides when objects are pressed</p> <p>Online collaboration: C5.4 I understand that information I put online leaves a trail, or digital footprint C5.5 I know how and why to create secure passwords for online accounts C5.6 I know what spam is, and how to deal with it</p>	<p>Research: R5.1 I know the information found on some sites will be biased R5.2 I know that images and text found on websites is subject to copyright R5.3 I know how to credit the use of websites in my work, and why this should be done E-safety: R5.4 I know different ways of reporting concerns about content</p>	<p>Creating images: M5.1 I can add and combine shapes to design a 3D model M5.2 I can add detail to my 3D model Photography: M5.3 I can improve a photo with editing tools e.g. blur, filters, add border Video: M5.4 I can edit the video; trimming and re-ordering clips M5.5 I can add a voice-over and / or background music to a video M5.6 I can add titles and credits to my video Audio: M5.7 I can create an audio recording and add it to other software</p>

Year 6

P6.1 I can design and create a game, app and / or model, incorporating variables and different forms of input and output
P6.2 I can test, debug and modify a program to improve it

Spreadsheets:
D6.1 I can design and create a spreadsheet for a specific purpose, incorporating different features of design and function

Word processing:
C6.1 I can discuss and evaluate my documents, and make amendments as needed

Presentations:
C6.2 I can create a consistent design for my presentation, and present to others

Online collaboration:
C6.3 I know that some websites have age restrictions, and why these might be in place
C6.4 I can describe the opportunities computer networks and the internet offer for communication and collaboration
C6.5 I know different ways to report concerns about content & contact

Research:
R6.1 I understand how computer networks work, including the internet
R6.2 I understand the difference between the internet and an internet service, e.g. the world wide web, VOIP
R6.3 I can use search engines effectively, and I know how search results are selected and ranked

Photography:
M6.1 I can take photos for a given purpose and use them in my work
Animation:
M6.2 I can plan and create an animation for a given purpose
M6.3 I can edit an animation to improve it / make it more realistic
M6.4 I can combine an animation with other software
Multimedia overall:
M6.5 I can select and use appropriate multimedia tools, and combine these for a given purpose with confidence