

## Quick Look Computing Skills Progression: FS->46

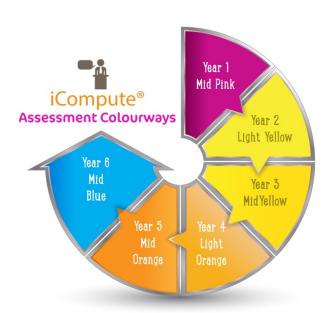


Progress		Computer Science		Information Technology		Digital Literacy (incl. eSafety )
raman convenus	follow and give simple instructions with help (algorithms) make a programmable toy move but not always as planned (programming) use a limited set of software and tools to make something happen on screen but not always according to those planned identify simple repeating patterns sort a small set of objects according to criteria, sometimes with support organise data into simple charts and graphs with support		use a keyboard sometimes with support use a mouse or touch to make choices with help have created simple digital content with support have explored a limited range technology, digital content and tools be able to relate some computer models to real life with support explore simple computer models		create basic shapes using digital tools with support understand that we can get information from pictures and video as well as words record basic sounds (audio) with support interact with multimedia software to make something happen on screen explore, access and make choices with digital content	
	answer questions using data with support  give and follow simple instructions in order (algorithms)		use a keyboard to make choices		understand that they should get permission from an adult before going online understand that they should not talk to anyone they do not know online understand the need to be careful using computers and devices but can sometimes be careless share computers and devices with others but not always fairly	
zption	create a short sequence of instructions (algorithms) change instructions to create a different outcome (algorithms) make a programmable toy move (programming) use simple software and tools to make something planned happen make choices on-screen about buttons and icons to select		use the mouse or touch to select icons and items move onscreen objects talk about the technology used at home and in school operate digital equipment use technology and digital content to play and learn		have created shapes and text using digital tools used technology to show learning talk about different kinds of information such as pictures, words, video and sound create simple compositions and record/playback audio begin to understand that software and tools can be used to communicate through text, images and sound find information using a basic search know to ask an adult before going online	
GA O	create, recreate and continue patterns sort a set of objects according to criteria construct simple pictograms know that pictures on a pictogram represent numerical values		begin to understand that computers can be used to represent real life and imaginary situations explore simple computer models and talk about what happens if		know to tell an adult if they find anything worrying online know that they should not talk to anyone they do not know online be kind to friends be able to talk about how much time they spend using computers and devices be careful using computers and devices share the use of computers and devices	
	read a set of instructions and predict the outcome (algorithms) write/draw a set of simple instructions in order (algorithms) make changes to instructions and predict how the outcome will change (algorithms) plan a set of instructions for a programmable toy and make it move (programming) correct mistakes if instructions are incorrect (debugging) talk about how their instructions could be improved describe patterns and relationships sort objects into sets according to one or more criteria compare data using simple charts and graphs		use a mouse or touch to select, tap/click and drag objects around a screen enter simple words using a keyboard and made choices have created and saved their work have printed work experienced a wider range of technology and tools to play and learn explore a variety of computer models understand that a computer can be used to represent real life and imaginary situations		access a website using short cuts navigate a website using buttons and obvious links talk about information they have found out from images, text, video and sound understand that audio can convey information Explore the features of digital audio recording devices/tools use a combination of simple and drawing to demonstrate their learning put together simple presentations with multimedia aspects to communicate ideas obtain information online make choices about the kind of information they collect online	
	suggest differed use graphs to create own qu	ent ways data could be organised or displayed answer a range of questions estions that could be answered by interpreting data on a graph sons between data on a graph			always ask for seek support v	when they are unsure about digital content out the time they spend using computers and devices and the content they spend using computers and devices and the content they view/use
Palmany computers	Units iAlgorithm	read a set of instructions and sometimes predict the correct outcome produce instructions but sequence them incorrectly or make assumptions understands that humans and computers follow instructions	Units iModel	have entered words using a keyboard use a mouse to point, click and drag objects around a screen with help. have created digital content using IT tools have saved a file with support have explored a limited range of tools access a website using desktop shortcuts	Units iWrite	obtain simple information from the world wide web use digital drawing tools to express something use IT to create sentences that communicate meaning  know that some information is personal (Eg. name & address) identify some characteristics of trustworthy/untrustworthy people but give inappropriate justification (eg. trustworthy because they are being nice)
Year 1	iProgram	read a set of instructions and usually predict the correct outcome produce a set of instructions that others can usually follow understands that computers follow instructions given in a precise way	iData	analygate simple websites with support  enter simple sentences using a keyboard use a mouse to point, click and drag objects around a screen use the mouse to select icons and items print work save work with assistance navigate a website using buttons and image links	iSafe	understand that personal information should only be given to trusted people but the trust can be misplaced (see above)  find answers to simple questions using a website use drawing and text tools to impart information talk about how they have used the computer to create things  understand that various information is personal (Eg. hobbies) usually identify characteristics of trustworthy people know that personal information should only be given to trusted people
		read a set of instructions and predict the correct outcome produce an accurate set of instructions using agreed language that others can follow understands that computers have no intelligence		have created and saved different versions of their work be able to compare creating their work using IT with manual methods be able to explain why a particular tool has been chosen and its effect access a website by typing a simple url navigate a website using hyperlinks, buttons and image links		talk about how they found information in a website make choices about the kind of information they collect from websites use a combination of text and drawing to make simple presentations  understand that a wider range of information is personal (eg. regular attendance at a specific place) identify a variety of characteristics of trustworthy people and justifies opinions appropriately know that personal information should only be given to trusted people
Year 2	Units iProgram iSearch	know that programming applications can be given commands to produce specific effects on screen produce a sequence of blocks that achieves a simple effect (eg. move a sprite around the screen) plan and give direct instructions to make things happen (e.g. playing robots)	Units iDo Mail iPub iAnimate	navigate a document using arrow keys and a mouse use the backspace button and the delete button to remove text use tools to create simple presentations that communicate meaning make choices about applications and tools to use for a particular purpose locate, edit and save different versions of their work navigate around a website using hyperlinks and the back button type web addresses into a web browser create Internet favourites	Units iPub iBlog iSafe	choose a website based on how useful it is for a specific purpose demonstrate how they found specific information in a website be discerning about the information collected from websites select appropriate applications to help them achieve a specific task can identify suitable information to present  identify some ways they can keep themselves safe when using ICT use ICT to communicate, identify some of the risks and act to minimise them
	<u>J</u>	produce a sequence of instructions that result in planned outcomes.  program a short a sequence of commands that results in a planned effect program and test a simple program create algorithms to solve simple problems	QEE' Units	combine graphics with text use appropriate effects and re-size graphics copy text from an internet page to a document copy images from an internet page save, print and retrieve work use software, computers and devices to make simple presentations and create things	QEE' Units	begin to use a range of applications on computers and devices independently talk about how useful particular websites and/or applications have been to their work create digital content that communicates meaning
/car 3	iAlgorithm iProgram	A decign and develop basis computer programs	iSimulate iData	enter a URL for a website with support identify some links within web content and navigate with purpose	iConnect iSafe	<ul> <li>understand that a wider range of information is personal (Eg. regular attendance at a specific place)</li> <li>identify some of the ways to use computers safely</li> <li>know the need for passwords and that they should be kept safe.</li> <li>follow e-safety guidelines</li> </ul>
<i>•</i>		design and develop basic computer programs combine sequences of commands into procedures (blocks of code) that are repeated test and correct simple programs evaluate their own work and comment on improvements		combine graphics with text use bold, italic and underline. know how to undo and redo. align text left, right, centre and justify and know to use them insert images and to manipulate them assign desktop shortcuts to applications and work		use search technology to find things out uses a range of tools to communicate and express ideas  cross check information found on one website against another source carefully select information from a range of websites recognise what is acceptable/unacceptable behaviour when using technology and online know that some information available online may be misleading or inaccurate and that it needs to be checked
77	Units	write an algorithm to produce a given effect using repetition accurately predict the outcome of a range of algorithms and programs test, debug and refine algorithms and programs use sequence and basic selection and repetition in computer programs explain how a programmed effect has been achieved talk about improvements that could be made to programs	Units iMail	use the more advanced features of applications (Eg. word processing or presentation software) to help them match their work to their audience send an email.  reply to an email use the search facility in a database to find the answer to questions carry out searches involving more than one condition to find answers to a variety of questions, sometimes with help confidently enter URLs into an address bar of a browser	Units iAnimate	Understand that a computer network means connected computers Understand that you can use the internet for activities other than web browsing know that not all information available online is reliable and needs to be checked Understand that you can use the internet for activities other than web browsing find information by navigating around a number of websites using hyperlinks and buttons know that not all information available online is reliable and it needs to be checked but does not always do so know that internet search engines give a list of websites based on search terms
Year	iProgram-1 iProgram-2 iProgram-3		iData		iSafe	cross-check information provided on one website against that provided on another demonstrate the use of basic safety measures when using technology and working online (Eg. logging out) know the need to use secure passwords and keep them private use ICT to communicate and collaborate, identify some of the risks and act to minimise them know that not all information provided on the world wide web is correct and that it needs to be checked use appropriate search criteria to find relevant information and check its usefulness know the need to use secure passwords and keep them private



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This Quick-Look Computing Progression Skills grid is intended to be used alongside end-of-unit guidance, our detailed progression guides for:

- Computer Science
- Information Technology
- Digital LiteracyeSafety

And our pupil progress tracking spreadsheets.

The colourways from pink onwards are mapped to Computing At Schools Progression Pathways colour bands but are presented here in greater depth, allowing progress within colours to be monitored.