








# iCompute iCan - Computing Assessment Progression








Year 1	National Curriculum Links	iCan - Computing
<b>iAlgorithm</b>  	<ul style="list-style-type: none"> <li>understand what algorithms are; how they are implemented as programs on digital devices</li> <li>understand that programs execute by following precise and unambiguous instructions</li> <li>use logical reasoning to predict the behaviour of simple programs</li> <li>create and debug simple programs</li> </ul>	<ul style="list-style-type: none"> <li>I can tell you about something I do every day that needs to be done in order</li> <li>I can follow instructions</li> <li>I can make a set of instructions for others to follow</li> <li>I can change instructions if they are wrong</li> <li>I can follow instructions to do something depending if something is true or false</li> <li>I can read instructions and usually can tell you what I think will happen</li> <li>I can tell you what an algorithm is</li> </ul>
<b>iProgram</b> 	<ul style="list-style-type: none"> <li>understand that programs execute by following precise and unambiguous instructions</li> <li>use logical reasoning to predict the behaviour of simple programs</li> <li>create and debug simple programs</li> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can show you something that does something when you give it an instruction</li> <li>I can make a programmable toy go where I want it to go</li> <li>I can draw instructions that would move a toy</li> <li>I can tell you what I think a toy will do if it followed a set of instructions</li> </ul>
<b>iWrite</b>  	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can write a simple sentence using a keyboard</li> <li>I can print my work</li> <li>I can open a document and make a story using a word bank</li> <li>I can save my work</li> <li>I can tell you about when it would be useful to use a word processor</li> </ul>
<b>iData</b>	<ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can make a pictogram</li> <li>I can use pictograms to answer questions</li> <li>I can sort objects into an order</li> <li>I can make a graph</li> <li>I can tell you what I have learnt from graphs</li> </ul>
<b>iModel</b>	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can use a mouse</li> <li>I can investigate choices using software</li> </ul>









<b>iSafe</b>    <b>General</b>		<ul style="list-style-type: none"> <li>I can use an adventure game and make choices on screen</li> <li>I can recognise what is real and what is not real in an adventure game</li> <li>I can use drawing tools</li> </ul>
	<ul style="list-style-type: none"> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</li> <li>recognise common uses of information technology beyond school</li> </ul>	<ul style="list-style-type: none"> <li>I can tell you about the information that only belongs to me</li> <li>I can talk about who I can and should not share personal information with</li> <li>I can talk about people I can and can't trust</li> <li>I can identify someone I can trust (E.g. police officer or teacher)</li> <li>I can tell you about a risky situation when I might need the help of a trusted adult</li> <li>I can talk about how emotions and sensations can make me feel safe or unsafe</li> <li>I can talk about which information is personal to me and whom they should/should not give it to</li> </ul>
	<b>Information Technology</b>	<ul style="list-style-type: none"> <li>I can type simple sentences with a keyboard</li> <li>I can turn a computer on and off</li> <li>I can log on with a username and password</li> <li>I can use the keyboard</li> <li>I can open applications with help</li> <li>I can save and print my work</li> <li>I can use a mouse to point, click and drag objects around a screen</li> <li>I can use the mouse to select icons and items</li> <li>I can print my work</li> <li>I can save my work with help</li> <li>I can tell you why I used a computer to do something</li> </ul>
	<b>Digital Literacy</b>	<ul style="list-style-type: none"> <li>I can move around a website using buttons and picture links</li> <li>I can find answers to questions using a website</li> <li>I can put together pictures and words to tell you something</li> </ul>




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Year 2	National Curriculum Links	iCan - Computing
<b>iProgram</b>  	<ul style="list-style-type: none"> <li>understand what algorithms are; how they are how implemented as programs on digital devices</li> <li>understand that programs execute by following precise and unambiguous instructions</li> <li>use logical reasoning to predict the behaviour of simple programs</li> <li>create and debug simple programs</li> </ul>	<ul style="list-style-type: none"> <li>I can sequence a set of instructions for making a sandwich</li> <li>I can create a sequence of instructions</li> <li>I can use repeat instructions</li> <li>I can draw my own sprite using software</li> <li>I can create a simple animation</li> <li>I can program two sprites to talk to each other</li> <li>I can make a simple animation which has a background and sprites moving and talking</li> </ul>
<b>iPub</b>  	<ul style="list-style-type: none"> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can make a mind map about the World Wide Web</li> <li>I can make a timeline of events in computing history</li> <li>I can design my own vision of futuristic technology</li> <li>I can create a presentation</li> <li>I can create a basic eBook</li> <li>I can refine eBooks to include multimedia</li> </ul>
<b>iBlog</b> 	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>I can use a username and password to access a blog</li> <li>I can write sentences that build on things others have written</li> <li>I can post a comment on the class blog responding to a post or comment</li> <li>I can post a response to a blog expressing an opinion</li> <li>I can justify my opinion</li> <li>I can write a blog post about a topic they know</li> <li>The review posts they have previously written and choose examples of good blog posts</li> </ul>
<b>iSearch</b>  	<ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</li> </ul>	<ul style="list-style-type: none"> <li>I can find and move around a website</li> <li>I can use the information on a website to answer a question</li> <li>I can order things using information found online</li> <li>I can collect information from a part of a website and present my findings</li> <li>I can create a page for a class book</li> </ul>










<b>iAnimate</b>  	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can create a flipping book</li> <li>I can create character descriptions for a fairy tale</li> <li>I can create a storyboard</li> <li>I can create a script to retell a fairytale</li> </ul>
<b>iDo Mail</b>  	<ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>recognise common uses of information technology beyond school</li> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</li> </ul>	<ul style="list-style-type: none"> <li>I can type and send an email</li> <li>I can read and reply to an email</li> <li>I can send an email with an attachment</li> <li>I can talk about why and when using email would be useful</li> </ul>
<b>iSafe</b>  	<ul style="list-style-type: none"> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</li> </ul>	<ul style="list-style-type: none"> <li>I can explain why I shouldn't open an email or attachment without permission</li> <li>I can talk about why I should not talk to strangers online</li> <li>I can use ICT to communicate online</li> <li>I can talk about some ways I can stay safe when using technology</li> <li>I know that some websites are aimed at me and some are better for what I'm looking for</li> <li>I understand the need to treat others as I would like to be treated online</li> <li>I know that some people are not nice online and can bully</li> <li>I can talk about when I would need to tell a trusted adult about something online</li> <li>I can search for things online</li> <li>I know that some websites are aimed at me and some are better for what I'm looking for</li> </ul>
<b>General</b>	<b>Information Technology</b>	<ul style="list-style-type: none"> <li>I can move around things using touch, arrow keys or a mouse</li> <li>I can type with both hands</li> <li>I can use the backspace button and the delete button to remove text</li> <li>I can add titles and captions to my work</li> <li>I can find, change and save my work</li> <li>I can print my work</li> </ul>





<p><b>General</b></p> 	<p><b>Digital Literacy</b></p>	<ul style="list-style-type: none"> <li>I can find things out on the world wide web</li> <li>I can pick a website for something in particular with help</li> <li>I can find things online with help</li> <li>I can show you how I found information online</li> <li>I can be careful about the information I get from websites</li> <li>I can use useful apps to help me with a task</li> <li>I can move around a website using links and buttons</li> <li>I can type addresses into a web browser</li> <li>I can favourite/bookmark pages online</li> <li>I can change colours, size and style of text in my work</li> <li>I can mix sound, words and pictures and tell you what I want them to mean</li> <li>I know that I might need permission to use things I have found online</li> <li>I can find websites with help</li> <li>I can tell you why I prefer one website to another</li> <li>I can sort things into an order</li> <li>I can make a graph or pictogram</li> <li>I can use a graph or pictogram to answer questions</li> </ul>
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## iCompute iCan – Computing Assessment Progression




Year 3	National Curriculum Links	iCan - Computing		
<b>iAlgorithm</b> 	<ul style="list-style-type: none"> <li>use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs</li> </ul>	<ul style="list-style-type: none"> <li>I can sort objects</li> <li>I can identify ways to make sorting easier</li> <li>I can compare and spot patterns</li> <li>I can follow instructions to create things</li> </ul>		
<b>iProgram</b>  	<ul style="list-style-type: none"> <li>understand that programs execute by following precise and unambiguous instructions</li> <li>use logical reasoning to predict the behaviour of simple programs</li> <li>create and debug simple programs</li> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can make a sprite move using programming blocks and loops</li> <li>I can move a sprite on stage programming using coordinates</li> <li>I can create an animation where a sprite changes costume</li> <li>I can make an animation with sound effects that are repeated</li> <li>I can predict the shape a drawing function will make when executed</li> <li>I can amend a program to draw shapes using repeats and the pen tool</li> <li>I can make an animation combining images, sounds and movement</li> </ul>		
<b>iSimulate</b>  	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>I understand that computer simulations allow people to try things that would be difficult or impossible to do in real life</li> <li>I can use a simulation to identify patterns and rules</li> <li>I can use and explore an adventure game based on an imaginary world</li> <li>I can use an simulation to try out combinations of things</li> <li>I can make my own simulation</li> </ul>		
<b>iSafe</b>  	<ul style="list-style-type: none"> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</li> </ul>	<ul style="list-style-type: none"> <li>I can give examples of how online actions can affect others</li> <li>I can talk about how privacy settings can be used to help stay safe online</li> <li>I can give examples about appropriate/inappropriate content for online sharing</li> <li>I can explain the consequences of sharing without consent</li> <li>I can identify appropriate people to turn to for help</li> <li>I can identify some tactics that a person may use to manipulate another online</li> <li>I can talk about what to do if someone tries to pressure or manipulate me</li> <li>I share ideas about how technology can be used positively</li> <li>I understand that companies can target advertising</li> <li>I can talk about how online adverts can make people feel</li> <li>I know some of the ways to avoid seeing too many adverts online</li> </ul>		



<b>General</b>  		<ul style="list-style-type: none"> <li>I can explain why it is important to keep password safe</li> <li>I can identify what makes a strong password</li> <li>I can give examples of strong and safe passwords</li> </ul>
	Digital Literacy	<ul style="list-style-type: none"> <li>I can search online with help</li> <li>I can change what I'm searching for to get better results</li> <li>I can present information and my ideas using different tools</li> <li>I can enter a URL for a website</li> <li>I can point out some links on web pages and use them</li> <li>I can talk about how useful websites and apps have been to my work</li> <li>I can talk about my work and explain why I used particular tools</li> </ul>
	Information Technology	<ul style="list-style-type: none"> <li>I can combine images with text</li> <li>I can use appropriate effects and re-size graphics</li> <li>I can copy text from an internet page to a document</li> <li>I can copy images from a web page</li> <li>I can save, print and retrieve work</li> <li>I can use software, computers and devices to make simple presentations and create things</li> <li>I can save my work on the network and online</li> <li>I can scroll or swipe</li> <li>I can collect data and talk about its accuracy</li> <li>I can organise and present data using different tools</li> </ul>



## iCompute iCan – Computing Assessment Progression

Year 4	National Curriculum Links	iCan - Computing
<b>iProgram</b> 	<ul style="list-style-type: none"> <li>design, write and debug programs that accomplish specific goals</li> <li>Use sequence and repetition in programs</li> <li>Use logical reasoning to explain how a simple algorithm works and detect and correct errors in algorithms and programs</li> <li>Solve problems by decomposing them into smaller parts</li> <li>create and debug simple programs</li> <li>understand that programs execute by following precise and unambiguous instructions</li> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can draw simple shapes using programming blocks containing direction and loops</li> <li>I can create and test a sequence of statements that make letters of the alphabet</li> <li>I can create programs that change the size of a shape</li> <li>I can program a robot to draw letters of the alphabet</li> <li>I can use if .. then .. else statements in my programs</li> <li>I can plan a number of commands in order to solve a puzzle</li> <li>I can plan algorithms and test programs systematically</li> <li>I can program functions and call them more than once</li> </ul>
<b>iConnect</b>   	<ul style="list-style-type: none"> <li>understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration</li> <li>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</li> <li>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</li> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> </ul>	<ul style="list-style-type: none"> <li>I can name some of the activities you can do online</li> <li>I can use hyperlinks on a website</li> <li>I can visit and move around websites to answer questions</li> <li>I can choose and bookmark a favourite</li> <li>I can use search terms and a search engine to answer questions</li> <li>I understand the risks associated with visiting non-credible websites</li> <li>I can decide whether a website is reliable</li> </ul>
<b>iData</b>	<ul style="list-style-type: none"> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design</li> </ul>	<ul style="list-style-type: none"> <li>I can count in Binary from 1 to 26 (5 bit)</li> <li>I can assign a letter of the alphabet to a binary code</li> </ul>










	<p>and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p> (KS3 edited) understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers [for example, binary addition...]</p>	<ul style="list-style-type: none"> <li> I can answer questions using information contained on records</li> <li> I can sort information on records</li> <li> I can use computers to add a record to a database</li> <li> I can answer simple questions using information stored in records</li> <li> I can use a database to create charts representing answers to questions</li> <li> I can search and sort a database to answer a question</li> </ul>
<p><b>iAnimate</b></p>  	<p> select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p>	<ul style="list-style-type: none"> <li> I can create a flipping book animation</li> <li> I can draw a series of images on frames with each showing a figure in a different pose</li> <li> I can animate a sequence of digital images</li> <li> I can design and add backgrounds to an animated scene</li> <li> I can plan and make an animation</li> </ul>
<p><b>iSafe</b></p>  	<p> use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p>	<ul style="list-style-type: none"> <li> I can talk what digital media I use</li> <li> I know the five-step method for conducting an online search</li> <li> I can use search criteria</li> <li> I can identify some of the ways online content can be evaluated for reliability</li> <li> I can give examples about appropriate/inappropriate content for online sharing</li> <li> I can explain the consequences of sharing without consent</li> <li> I can identify appropriate people to turn to for help</li> <li> I can talk about copyright</li> <li> I can talk about strategies for recognising and responding to risky online interaction</li> <li> I can rate the riskiness of online scenarios</li> <li> I know some solutions for dealing with cyberbullying</li> <li> I can identify ways information can be found online about people</li> </ul>






<b>General</b>   		<ul style="list-style-type: none"> <li>I know that personal information you share online becomes part of your reputation, which can last a long time</li> <li>I know to speak to a trusted adult if I think my identity has been stolen</li> <li>I am careful about how and whom I share my personal information with</li> <li>I know that some people online may not be who they say they are</li> </ul>
	<b>Information Technology</b>	<ul style="list-style-type: none"> <li>I can use a keyboard with increasing confidence</li> <li>I can vary fonts, colours and effects</li> <li>I can cut, copy and paste</li> <li>I can import text, audio and graphics from devices, networks and online</li> <li>I can change images: crop, resize and edit them</li> <li>I insert and edit hyperlinks</li> <li>I can create things for a particular audience</li> <li>I can evaluate my own and other's work and suggest improvements</li> <li>I can create diagrams and graphs to answer questions</li> <li>I can talk about what data I need to collect to answer a question</li> <li>I can use and compare graphs and charts</li> <li>I can organise, present and interpret data</li> </ul>
	<b>Digital Literacy</b>	<ul style="list-style-type: none"> <li>I can open, create, send and forward email</li> <li>I can attach files to digital communications – like email and blogs</li> <li>I can open and save attachments</li> <li>I use a range of digital tools to communicate (E.g. blogs, chatting, commenting) with purpose</li> <li>I use search engines to find things online</li> <li>I can use effective search terms to find specific information</li> <li>I can check the accuracy and reliability of information</li> <li>I know the difference between opinion, assumption and fact</li> </ul>





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Year 5	National Curriculum Links	iCan – Computing
<b>iDraw</b> 	<ul style="list-style-type: none"> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>I can create vector images out of shapes and lines</li> <li>I can duplicate, move, resize, and rotate graphical objects</li> <li>I can zoom in and out to add detail to graphical objects</li> <li>I can change the order of layers in a vector drawing</li> </ul>
<b>iModel</b> 	<ul style="list-style-type: none"> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>I can use graphical modelling software to create 3D shapes</li> <li>I can group 3D objects to create a model</li> <li>I can zoom in and out to add detail</li> <li>I can explore possibilities using graphical models</li> </ul>
<b>iProgram</b>  	<ul style="list-style-type: none"> <li>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> </ul>	<ul style="list-style-type: none"> <li>I can use conditional if .. then ... else statements</li> <li>I can use x-y coordinates to program movement</li> <li>I know that boolean statements can only be true or false</li> <li>I know that variables are stored and be used to keep track of values (E.g. scores)</li> <li>I can use variables in programs</li> <li>I use sequence, selection, conditions and repetition in my programs</li> <li>I can design a algorithms before I program them</li> <li>I test my programs in a systematic way to help me find bugs</li> <li>I debug my programs</li> <li>I can evaluate my work and make improvements</li> </ul>
<b>iWeb</b> 	<ul style="list-style-type: none"> <li>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration</li> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>I can act out the Internet</li> <li>I can talk about ways different services on the internet can be used to work with others</li> <li>I can tell you the difference between the Internet and the World Wide Web</li> <li>I can talk about how HTML code tells the computer what to put in a space on a web page</li> <li>I can edit HTML code to change the text appearing on a web page</li> <li>I recognise basic HTML and can identify what some item are (e.g. an image)</li> <li>I can change an image on a website</li> <li>I can read basic HTML and predict what a website would look like</li> <li>I can use HTML code to create web content</li> <li>I can remix a web page to make my own which has images and text</li> </ul>






<p><b>iCrypto</b></p>  <p><b>iSafe</b></p>  	<p>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</p>	<ul style="list-style-type: none"> <li>I can encrypt and decrypt simple messages</li> <li>I can communicate simple messages through signals</li> <li>I know that messages can be sent electronically</li> <li>I can send and decode messages using Morse Code</li> <li>I can encode and decode messages using a cipher</li> <li>I know the importance of cryptography throughout time</li> <li>I can talk about the risks and benefits of using various forms of communication</li> <li>I know what makes information personal and private</li> <li>I follow safety rules and behave responsibly when using technology</li> <li>I can talk about personal safety in real life and online</li> <li>I know the SMART rules for communicating online</li> <li>I can check the validity of online content</li> <li>I am sensible about which information I can trust</li> <li>I can compare different sources of information</li> <li>I can communicate online safety and sensibly</li> <li>I know that people can be bullied online and this is called cyberbullying</li> <li>I can talk about the different ways people can be bullied online</li> <li>I know what to do if I come across cyberbullying</li> <li>I can cross-check information provided on one website against that provided on another</li> <li>I can create digital content for specific purposes</li> <li>I can use basic safety measures when using technology and working online</li> <li>I can use appropriate search criteria to find information and check if it is reliable and useful</li> <li>I know that personal information should only be given to trusted sources</li> <li>I know that some information on the internet may be misleading or inaccurate and that it needs to be checked</li> <li>I use technology and online services to communicate and collaborate</li> <li>I can identify some of the risks involved in communicating online and take steps to avoid them</li> </ul>
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<b>General</b>   	Information Technology	<ul style="list-style-type: none"> <li>I understand that information in the form of text, sound and pictures can be combined to create digital content and communicate with an audience</li> <li>I can design and create digital content for a particular purpose and audience</li> <li>I can create digital content that uses both text and images</li> <li>I can choose and use the appropriate advanced features of word processing or presentation software</li> </ul>
	Digital Literacy	<ul style="list-style-type: none"> <li>I know that a computer network consists of a number of computers and devices that are connected</li> <li>I can suggest a range of activities you can do using the internet, including web browsing</li> <li>I can find information by navigating around a number of websites using hyperlinks and button</li> </ul>





Year 6	National Curriculum Links	iCan - Computing
<b>iProgram</b>  	<ul style="list-style-type: none"> <li>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> <li>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</li> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> </ul>	<ul style="list-style-type: none"> <li>I can identify a range of input devices used in playing computer games</li> <li>I can write and change computer programs to make them do a number of things</li> <li>I can use loops, variables and conditional statements (if..then) in computer programs</li> <li>I can design a program and detail the objects, interactions and rules for a game</li> <li>I can use variables and program the rules necessary to progress in a game</li> <li>I can program a game that has more than one level</li> <li>I can identify mistakes in my own and other's computer programs</li> <li>I can systematically test my programs to find bugs and correct them</li> </ul>
<b>iApp</b> 	<ul style="list-style-type: none"> <li>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> <li>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</li> </ul>	<ul style="list-style-type: none"> <li>I can talk about what benefits mobile technology brings to modern culture (e.g. communication, collaboration, social, business etc.)</li> <li>I can create an app that includes images, buttons and sound</li> <li>I can use variables, loops, conditionals (if .. then), procedures and functions in my programs</li> <li>I can identify mistakes in my own and other's computer programs</li> <li>I can make changes to my code when things do not execute as expected</li> <li>I can write code using a text-based programming language</li> <li>I can split a problem into smaller steps to help solve it and know this is called decomposition</li> <li>I can use algorithms to come up with solutions to problems</li> </ul>



	<p>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that</p>	
<p><b>iNetwork</b></p> 	<p>understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<ul style="list-style-type: none"> <li>I can talk about the benefits of being connected</li> <li>I know a computer network is a group of computers that are connected</li> <li>I can talk about how the Internet is many networks connected and is a Wide Area Network (WAN)</li> <li>I know that a router sends and receives data as packets</li> <li>I know that websites have an address and are located on web servers around the world</li> <li>I can tell you the difference between the World Wide Web and the Internet</li> <li>I can find the location of a website using a computer</li> <li>I can talk about the number of routers (hops) a request to visit a website passes through before reaching its location</li> <li>I can describe how search engines 'crawl' links on websites to find out which web pages are available on the world wide web</li> <li>I know that search results are organised in order of popularity and this is called being 'ranked'</li> <li>I can explain how search results are ranked by search engines</li> <li>I can use effective search terms to find things online</li> <li>I can set out content on a web page using basic HTML</li> <li>I can style content on a web page using basic CSS</li> </ul>
<p><b>iSafe</b></p>  	<p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<ul style="list-style-type: none"> <li>I can talk about the risks and benefits of communicating online</li> <li>I understand what is personal and private information and when/where to share it</li> <li>I can give you examples of situations that would call for getting help</li> <li>I can identify one or more people I can trust (E.g. police officer or teacher)</li> <li>I can talk about the importance of never sharing passwords, except with parents or guardians</li> <li>I can talk about the importance of screen locks that protect devices</li> <li>I know how to create passwords that are hard to guess, yet easy to remember</li> <li>I can make decisions about information sharing on the sites and services I use</li> </ul>



<b>General</b>   		<ul style="list-style-type: none"> <li>I can identify situations of harassment or bullying online</li> <li>I know what it means to be a bystander or upstander online</li> <li>I can talk about specific ways to respond to bullying when I see it</li> <li>I can explain how to behave if I experience harassment</li> <li>I can choose how to respond from options that feel safe and appropriate to me</li> <li>I know how to respond to negativity online</li> <li>I can identify situations when it's better to communicate face-to-face rather than to message</li> <li>I recognise that looking for help for myself or other people is a sign of strength</li> <li>I know that there are tools available to report online abuse</li> <li>I can talk about when and why it would be appropriate to use online reporting</li> </ul>
	Information Technology	<ul style="list-style-type: none"> <li>I can use a keyboard quickly and accurately</li> <li>I can create interactive presentations that combine text, images, sound and video</li> <li>I can use hyperlinks in my presentations</li> <li>I can format and edit my work to make it better</li> <li>I can create, improve and understand graphs and charts</li> <li>I can design questions and perform searches using more than one criteria on databases/spreadsheets</li> <li>I can check the reliability of data</li> <li>I can investigate the effects of changing variables</li> <li>I can make and test predictions using digital tools</li> </ul>
	Digital Literacy	<ul style="list-style-type: none"> <li>I can present data to a given audience and display findings using a range of digital tools</li> <li>I can communicate and collaborate online at schools and outside of it (E.g. messaging, gaming)</li> <li>I can share my work with a wide audience (E.g. blogging, publishing web pages)</li> <li>I understand when and where I can use the Internet to find things out</li> <li>I can explain what copyright is and how it applies to things I would like to use</li> <li>I know that I need permission to use other people's work in mine</li> <li>I can tell you how to check whether information online is reliable or useful</li> <li>I can explain how online research involves putting information together, understanding it and working out whether it is useful or good</li> </ul>

