

iCompute - Computing Vocabulary Progression

Year 1	National Curriculum Links	Vocabulary	
iAlgorithm  	<ul style="list-style-type: none"> understand what algorithms are; how they are implemented as programs on digital devices understand that programs execute by following precise and unambiguous instructions use logical reasoning to predict the behaviour of simple programs create and debug simple programs 	<ul style="list-style-type: none"> algorithm instruction sequence program 	<ul style="list-style-type: none"> debug repeat true false
iProgram 	<ul style="list-style-type: none"> understand that programs execute by following precise and unambiguous instructions use logical reasoning to predict the behaviour of simple programs create and debug simple programs use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> algorithm instruction sequence program 	<ul style="list-style-type: none"> debug repeat output
iWrite  	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> text word processor key keyboard 	<ul style="list-style-type: none"> save print backspace return/enter
iData 	<ul style="list-style-type: none"> use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> information data tally pictogram 	<ul style="list-style-type: none"> survey graph sort
iModel  	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> model algorithm instruction choice 	<ul style="list-style-type: none"> real imaginary



iSafe



- 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
- recognise common uses of information technology beyond school

- Personal information
- Trusted adult
- Permission
- Cyber bullying



Year 2	National Curriculum Links	Vocabulary	
iProgram  	<ul style="list-style-type: none"> understand what algorithms are; how they are how implemented as programs on digital devices understand that programs execute by following precise and unambiguous instructions use logical reasoning to predict the behaviour of simple programs create and debug simple programs 	<ul style="list-style-type: none"> algorithm instruction sequence 	<ul style="list-style-type: none"> program repeat test debug
iPub  	<ul style="list-style-type: none"> 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 To use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> World Wide Web network Internet 	<ul style="list-style-type: none"> device eBook
iBlog 	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content 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 	<ul style="list-style-type: none"> blog post comment online audio video link 	<ul style="list-style-type: none"> respond comment justify
iSearch  	<ul style="list-style-type: none"> use technology purposefully to create, organise, store, manipulate and retrieve digital content 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 	<ul style="list-style-type: none"> World Wide Web Network Internet Hyperlink Search URL 	



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<p>iAnimate</p>  	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> animation scene script motion storyboard props
<p>iDo Mail</p>  	<ul style="list-style-type: none"> use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school 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 	<ul style="list-style-type: none"> email email address to from attachment
<p>iSafe</p>  	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Personal information trustworthy untrustworthy trusted adult Internet online



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Year 3	National Curriculum Links	Vocabulary	
iProgram  	<ul style="list-style-type: none"> understand that programs execute by following precise and unambiguous instructions use logical reasoning to predict the behaviour of simple programs create and debug simple programs use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Program Sequence Selection Repeat 	<ul style="list-style-type: none"> Coordinates x-y axis Import Test Debug
iNetwork 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Network Network Switch Server Wireless Access Point (WAP) WIFI 	<ul style="list-style-type: none"> Router Internet IP Address URL DNS
iConnect  	<ul style="list-style-type: none"> 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 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 	<ul style="list-style-type: none"> World Wide Web Network Internet Hyperlink Search 	<ul style="list-style-type: none"> URL IP Address Web browser Copyright
iData 	<ul style="list-style-type: none"> use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Field Record Database 	<ul style="list-style-type: none"> Data Search Sort
iPodcast 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Podcast Audio Record Effects 	<ul style="list-style-type: none"> Track Edit Trim/Crop



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<p>iSimulate</p>  	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 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 	<ul style="list-style-type: none"> Simulation Rules Choice Variables 	<ul style="list-style-type: none"> Pattern Predict Effect
<p>iSafe</p>  	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Like/dislike Safe/unsafe Public Private Share Block 	<ul style="list-style-type: none"> Privacy settings Online sharing Consent Strong password Manipulation Pressure Advertising



Year 4	National Curriculum Links	Vocabulary	
<p>iProgram</p> 	<ul style="list-style-type: none"> ✔ design, write and debug programs that accomplish specific goals ✔ Use sequence and repetition in programs ✔ Use logical reasoning to explain how a simple algorithm works and detect and correct errors in algorithms and programs ✔ Solve problems by decomposing them into smaller parts ✔ create and debug simple programs ✔ understand that programs execute by following precise and unambiguous instructions ✔ use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> ✔ Program ✔ Sequence ✔ Selection ✔ Condition ✔ Repeat ✔ Test ✔ Debug 	<ul style="list-style-type: none"> ✔ Code ✔ Instruction ✔ Command ✔ Variable ✔ Execute
<p>iData</p> 	<ul style="list-style-type: none"> ✔ 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 ✔ (KS3 edited) understand how numbers can be represented in binary, and be able to carry out simple operations on 	<ul style="list-style-type: none"> ✔ Data ✔ Database ✔ Record ✔ File ✔ Field 	<ul style="list-style-type: none"> ✔ Search ✔ Sort ✔ Search ✔ Chart
<p>iAnimate</p> 	<ul style="list-style-type: none"> ✔ 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 	<ul style="list-style-type: none"> ✔ animation ✔ frame ✔ Frame rate ✔ Frames per second (FPS) ✔ CGI 	<ul style="list-style-type: none"> ✔ Layer ✔ Forward/backward

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<p>iMail</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</p>	<ul style="list-style-type: none"> ✎ email ✎ email address ✎ to ✎ from ✎ privacy ✎ security ✎ inbox 	<ul style="list-style-type: none"> ✎ send ✎ receive ✎ server ✎ attachment
<p>iSafe</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"> ✎ Privacy ✎ Privacy settings ✎ Keywords ✎ Copyright ✎ Strong password 	<ul style="list-style-type: none"> ✎ Spam ✎ Virus ✎ Cyberbullying



Year 5	National Curriculum Links	Vocabulary
iCrypto 	<ul style="list-style-type: none"> Solve problems by decomposing them into smaller parts Use logical reasoning to explain how a simple algorithm works and detect and correct errors in algorithms and programs 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 	<ul style="list-style-type: none"> Cryptography Encrypt Decrypt Cipher Key Shift Binary Frequency Analysis
iDraw 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Vector Canvas Resize Rotate Fill Stamp Group Layer Zoom Send to front Send to back Bring Forward Send Backward
iModel 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 2D 3D Model Resize Rotate Zoom In Zoom Out Group
iProgram  	<ul style="list-style-type: none"> design, write and debug programs that accomplish specific goals Use sequence and repetition in programs Use logical reasoning to explain how a simple algorithm works and detect and correct errors in algorithms and programs 	<ul style="list-style-type: none"> Sequence Selection Condition Repeat Boolean



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	<ul style="list-style-type: none"> Solve problems by decomposing them into smaller parts create and debug simple programs understand that programs execute by following precise and unambiguous instructions use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Variable Coordinates x-y axis
<p>iWeb</p>  	<ul style="list-style-type: none"> To use technology purposefully to create, organise, store, manipulate and retrieve digital content 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 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 	<ul style="list-style-type: none"> World Wide Web HTML CSS Element Tags
<p>iSafe</p>  	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Communication Safe Technology Risk Benefit Personal Private SMART Trust Bullying Cyberbullying



Year 6	National Curriculum Links	Vocabulary	
<p>iProgram</p>  	<ul style="list-style-type: none"> design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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 	<ul style="list-style-type: none"> Sequence Selection Condition Repeat Boolean Variable Procedure Execute Test Debug 	
<p>iApp</p> 	<ul style="list-style-type: none"> design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 	<ul style="list-style-type: none"> Input Output Events Properties Pseudo-code Syntax Assets Parameters Argument 	<ul style="list-style-type: none"> Function Procedure Event handler Variable Test Debug



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<p>iNetwork</p> 	<ul style="list-style-type: none"> 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 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 	<ul style="list-style-type: none"> Network Router Internet World Wide Web IP Address URL 	<ul style="list-style-type: none"> Data Packet Search Engine Rank HTML
<p>iSafe</p> 	<ul style="list-style-type: none"> use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 	<ul style="list-style-type: none"> privacy privacy settings security two-factor (or step) verification encryption hack strong password personal information 	<ul style="list-style-type: none"> bullying cyberbullying conflict bystander upstander harassment report block abuse

