












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








 is vocabulary that is new to the year group



<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 recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> personal information * trusted adult * permission * cyber bullying * 	
<p>iDraw</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"> line * fill * undo * brush * tools * paint * line * 	<ul style="list-style-type: none"> shape colour eBook * import * upload * edit *
<p>iLearnAI</p> 	<ul style="list-style-type: none"> recognise common uses of information technology beyond school To use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Artificial Intelligence (AI)* smart train* example categorise mistake reliable* 	<ul style="list-style-type: none"> prompt* predict* program command simulate*







 is vocabulary that is new to the year group



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 * 	<ul style="list-style-type: none">

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Year 2	National Curriculum Links	Vocabulary
iAnimate  	<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 *
iDo Mail  	<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 *
iSafe  	<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"> 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 *

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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> 	<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"> email email address to from privacy * security * inbox * 	<ul style="list-style-type: none"> send * receive * server * attachment
<p>iLearn AI</p> 	<ul style="list-style-type: none"> design, write and debug programs that accomplish specific goals understand that programs execute by following precise and unambiguous instructions 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 use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Intelligence * Artificial intelligence (AI) * Machine learning * data input 	<ul style="list-style-type: none"> training data * testing data * model prediction *
<p>iPhotoEdit</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 use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> image edit crop* rotate* undo/redo save effects* brightness* saturation* filter* 	<ul style="list-style-type: none"> AI magic grab* duplicate copy* paste* resize* fake* collage* magic erase layer*
<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"> privacy privacy settings keywords * copyright strong password 	<ul style="list-style-type: none"> spam * virus * cyberbullying





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Year 5	National Curriculum Links	Vocabulary
<p>iCrypto</p> 	<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 *
<p>iDraw</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 	<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 *
<p>iModel</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 	<ul style="list-style-type: none"> 2d * 3d * model resize rotate * zoom in * zoom out * group
<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, 	<ul style="list-style-type: none"> sequence selection condition repeat boolean * variable coordinates x-y axis




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	store, manipulate and retrieve digital content	
<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






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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 	<ul style="list-style-type: none">
<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
<p>iModel</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"> 2D 3D dimensions model graphics 	<ul style="list-style-type: none"> resize rotate design evaluate pan * orbit * zoom

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Year 6	National Curriculum Links	Vocabulary		
<p>iLearnAI</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 🔗 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"> 🔗 artificial intelligence 🔗 machine learning 🔗 model 🔗 learning model 🔗 input 🔗 data 	<ul style="list-style-type: none"> 🔗 dataset 🔗 algorithm 🔗 prediction 🔗 classify * 🔗 category * 🔗 bias * 	
<p>iMicrobit</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"> 🔗 micro:bit,* 🔗 algorithm 🔗 input 🔗 output 🔗 abstraction 	<ul style="list-style-type: none"> 🔗 variable 🔗 accelerometer* 🔗 sensor 🔗 timer 🔗 reset 🔗 LED* 	<ul style="list-style-type: none"> 🔗 logic 🔗 condition 🔗 if..then..else 🔗 light 🔗 temperature 🔗 selection 🔗 simulation 🔗 model

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