	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Planning and length of topic	Interwoven within the curriculum. On-going throughout the year.	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam	Each unit should take 7 sessions 1 session = 1 Thursday with Junior Jam 7 sessions in total Planning to be provided and taught by Junior Jam
AUTUMN 1		iJam - Lite L1	iJam - Lite L2	iJam L1	iJam L2	iJam L3	iJam L4
AUTUMN 2		iProgram - Lite L1	iProgram - Lite L2	iProgram L1	iProgram L2	iProgram L3	iProgram L4
SPRING 1		iAnimate Lite L1	iAnimate Lite L2	iOffice L1	iOffice L2	iOffice L3	iOffice L4
SPRING 2		iCreate - Lite L1	iCreate - Lite L2	iCreate L1	iCreate L2	iCreate L3	iCreate L4
SUMMER 1		iCommunicate - Lite L1	iCommunicate - Lite L2	iCommunicate L1	iCommunicate L2	iCommunicate L3	iCommunicate L4
SUMMER 2		iTech - Lite L1	iTech - Lite L2	iTech iCSI - Cyber Security	iTech iCSI - Cyber Security	iTech iCSI - Cyber Security	iTech iCSI - Cyber Security
Big Concept Algorithms		iProgram - Lite L1 • Meaning of algorithm • How they are used • Give precise instructions • How digital devices use instructions iTech - Lite L1 • How different objects use algorithms	iProgram - Lite L2 • Uses for algorithms in real-world applications • Give precise instructions • How digital devices use instructions iAnimate - Lite L2 • Scratch Jnr • Use of algorithms to achieve desired storyline • Precise direction/coding iTech - Lite L2 • Algorithms in the film industry - special FX • Precise instructions	iProgram L1 • Apply computational thinking to writing algorithms iTech L1 • Blockly - stringing code together to make algorithms	iProgram L2 • Create complex algorithms that effect other things within their designed program	iProgram L3 • Use computational thinking to write algorithms	iProgram L3 • Use computational thinking to write algorithms
Big Concept Programming		iProgram - Lite L1 • Design and create simple programs within Hopscotch	iProgram - Lite L2 • Debugging very simple code • Evaluating own work	iJam L1 • Writing a complete song in six weeks	iJam L2 • Selecting the right input, to gain the correct output for their song	iJam L3 • Selecting the right input, to gain the correct output for their song	iJam L3 • Selecting the right input, to gain the correct output for their song

• Debugging **iTech - Lite L1** • Debug problems within Inventioneers • Create new solutions	**iAnimate - Lite L2** • Scratch Jnr • Edit and debug their own code **iTech - Lite L2** • Combine storyboarding with code writing	• Selecting the right input, to gain the correct output • Garageband **iProgram L1** • Computational thinking • Blockly - design a variety of programs to set parameters • Design and code • Debug own work • Input and output of algorithms/code to a program **iCreate L1** • Repetition to ensure the app is used successfully • Correct inputs to ensure final product is to the desired specifications **iCommunicate L1** • Garageband and iMovie • Use various forms of input/output **iTech L1** • Use computational thinking • Plan, create and write a program to run an external device • Blockly - stringing code together to make algorithms, solving and debugging any issues, and coding to achieve the goals • Input and output of code to ensure the algorithm runs correctly and smoothly	• Garageband **iProgram L2** • Continue computational thinking • Create retro-arcade games • Control solutions and other problems mimicking real-world applications of programming • Plan, design and build a program to satisfy a brief • Choose the correct input to gain the correct output for their program **iCreate L2** • Use computational thinking to compare popular videos **iCommunicate L2** • Dissect the medium into individual components they all have in common and recreate them to make a magazine	• Garageband **iProgram L3** • Use computational thinking skills in practise • Broken programs - figure out what is wrong and fix the programs • Writing and debugging their own code • Input and output of algorithms/code to a program • Choose the correct input to gain the correct output for their program **iCreate L3** • Decompose the task of 2D Animation into smaller parts • Learn that a slow, patient detailed approach to the input, will result in a smooth output **iCommunicate L3** • Split tasks into smaller chunks to efficiently analyse what the customers are wanting and produce something to appeal to them	• Garageband **iProgram L3** • Use computational thinking skills in practise • Broken programs - figure out what is wrong and fix the programs • Writing and debugging their own code • Input and output of algorithms/code to a program • Choose the correct input to gain the correct output for their program **iCreate L3** • Decompose the task of 2D Animation into smaller parts • Learn that a slow, patient detailed approach to the input, will result in a smooth output **iCommunicate L3** • Split tasks into smaller chunks to efficiently analyse what the customers are wanting and produce something to appeal to them

Big Concept Logical Reasoning		**iProgram - Lite L1** • Code simple programs to fulfil certain functions • Predict behaviour **iTech - Lite L1** • Predict behaviour of algorithms • Logic problems with Inventioneers	**iProgram - Lite L2** • Code simple programs to fulfil certain functions • Predict behaviour **iAnimate - Lite L2** • Use the logic to predict what their code will do **iTech - Lite L2** • Use the logic to predict what their code will do	**iProgram L1** • Think in logical and detailed instructions • Simplify instructions • Design their own game **iTech iCSI** • Check their code for errors • Say what the code will do to the external device before the program runs	**iProgram L2** • Look at pre-existing code and explain why that code makes the program act a certain way • Find errors in code that has been written or written for them	**iProgram L3** • Think logically and manage detailed instructions • Evaluating code and finding errors - work out the error and fix it • Read code carefully, decrypt and understand the code before finding the fault	**iProgram L3** • Think logically and manage detailed instructions • Evaluating code and finding errors - work out the error and fix it • Read code carefully, decrypt and understand the code before finding the fault
Big Concept Uses of Technology		**iJam - Lite L1** • Create own music with Garageband • Store and retrieve content **iProgram - Lite L1** • Create digital media by coding their own programs • Store and retrieve content • Apply computational thinking to all problems/challenges in life • What is a computer? • Things they use on a daily basis that rely on computers **iAnimate - Lite L1** • Create digital content through animation • Animation techniques • Post-production techniques • Store and retrieve content • Retrieve content to be manipulated in another app	**iJam - Lite L2** • Create own music with Garageband • Manipulate the app to compose their desired piece **iProgram - Lite L2** • Create lot of digital media by coding own programs • Apply computational thinking to all problems/challenges in life • What is a computer? • Things they use on a daily basis that rely on computers **iAnimate - Lite L2** • Create digital content through animation • Animation techniques • Post-production techniques • Store and retrieve content • Retrieve content to be manipulated in another app **iCreate - Lite L2**	**iJam L1** • Use filters and search functions to find specific sounds **iProgram L1** • Create various programs and systems that hit certain parameters • Simple and concise coding • Evaluate own work **iOffice L1** • Understanding of networks • WAN and LAN networks • Positives and negatives of the internet • Communication and collaboration of the internet • Create multiple forms of Word documents • Combine work using Keynote • Copy and paste **iCreate L1** • Job roles within creating animation	**iJam L2** • Use filters and search functions to find specific sounds • Use linked apps to Garageband • Transfer from one app into Garageband **iProgram L2** • Create various programs and systems that hit certain parameters • Simple and concise coding • Evaluate own work **iOffice L2** • Create a new social media for kids • Catalogue their ideas using the functions in Word. • Present their work using Keynote • Copy and paste **iCreate L2** • Fan videos • Collaboration through the use of the internet • Make their own Fan Video	**iJam L3** • Use filters and search functions to find specific sounds • Use the 'Inter-App' audio app to mix a variety of apps into Garageband **iProgram L3** • Simple and concise coding • Evaluate own work **iOffice L3** • Evaluate the film and TV market to budget and fund a film proposal • Use search and filter functions in Excel • Use and evaluate data • Utilise basic and advanced functions within Microsoft Excel to find, compare and evaluate data • Make important decisions regarding their animated movie proposals which will be submitted via a Keynote presentation	**iJam L3** • Use filters and search functions to find specific sounds • Use the 'Inter-App' audio app to mix a variety of apps into Garageband **iProgram L3** • Simple and concise coding • Evaluate own work **iOffice L3** • Evaluate the film and TV market to budget and fund a film proposal • Use search and filter functions in Excel • Use and evaluate data • Utilise basic and advanced functions within Microsoft Excel to find, compare and evaluate data • Make important decisions regarding their animated movie proposals which will be submitted via a Keynote presentation

		iCreate - Lite L1 ● Manipulation of photographs ● Retrieve from gallery and open in an app ● Digital design **iCommunicate - Lite L1** ● Save and retrieve work, within the app it was created on, or another ● Develop strategies for different real-life scenarios **iTech - Lite L1** ● Save and retrieve work, within the app it was created on, or another ● Technology from the 19th and 20th centuries ● Technology at home and school	● Manipulation of photographs taken by them and layout designed by them ● Retrieve from gallery and open in an app ● Edit photographs ● Digital design **iCommunicate - Lite L2** ● Edit/manipulate content ● Save and retrieve work, within the app it was created on, or another ● Communicate with people in the same building or on the other side of the world ● 21st century to communicate and connect **iTech - Lite L2** ● Edit/manipulate content ● Save and retrieve work, within the app it was created on, or another ● Technology used to create live action films and animated cartoons	● Collaboration and clear instructions ● Different ways work can be shared ● Add backgrounds and sound effects ● Search using filters and search functions to gain the correct media ● Combine a number of apps to create their final piece **iCommunicate L1** ● Collaboration on creative projects and content is made easier by the use of the internet and other shared platforms ● Vlogs, Blogs, Podcasts and Channels ● Work on a number of apps to create content ● Word, Notes, Garageband, Strip Designer and Toon me Studio **iTech iCSI** ● Work in multiple coding apps to gain the skills to control an external device	● Using the search function ● Combine a number of apps to create their final piece ● Share and import files **iCommunicate L2** ● Collaboration ● Roles within the magazine industry ● Using the search and filter functions within the Gallery app **iTech L2** ● Use a wide variety of apps to explore somewhere they can not currently go ● Create a presentation on Keynote	**iCreate L3** ● Add sound effects to their animations ● Search and use filter functions to find sounds in the sound library ● Evaluate the sounds ● Use a variety of software ● Create a 2D piece of animation **iCommunicate L3** ● Interdepartmental work/collaboration ● Explore different ways work can be shared with collaborators ● Use a variety of software to create a fully rounded ad campaign **iTech L2** ● Interdepartmental work/collaboration ● Different ways of collaborating ● Solo work to create a bigger picture ● Use a variety of software to establish connections	**iCreate L3** ● Add sound effects to their animations ● Search and use filter functions to find sounds in the sound library ● Evaluate the sounds ● Use a variety of software ● Create a 2D piece of animation **iCommunicate L3** ● Interdepartmental work/collaboration ● Explore different ways work can be shared with collaborators ● Use a variety of software to create a fully rounded ad campaign **iTech L2** ● Interdepartmental work/collaboration ● Different ways of collaborating ● Solo work to create a bigger picture ● Use a variety of software to establish connections
Big Concept Online Safety		**iJam - Lite L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram - Lite L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iJam - Lite L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram - Lite L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iJam L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iJam L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iJam L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iJam L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iProgram L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe

		iAnimate - Lite L1 ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCreate - Lite L1** ● Taking and editing photos ● Dangers of including a school logo **iCommunicate - Lite L1** ● Photography/ videography ● Passwords ● Who to talk to if something you see or hear upsets or concerns you **iTeach - Lite L1** ● Photography/ videography ● Passwords ● Who to talk to if something you see or hear upsets or concerns you	**iAnimate - Lite L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCreate - Lite L2** ● Taking and editing photos ● Dangers of including a school logo **iCommunicate - Lite L2** ● Photography/ videography ● Passwords ● Who to talk to if something you see or hear upsets or concerns you **iTeach - Lite L2** ● Photography/ videography ● Passwords ● Who to talk to if something you see or hear upsets or concerns you	● What they should do, and who they should tell, should they come across content that affects them in any way **iOffice L1** ● Pros and cons of email ● Construct emails - tone and content ● Caution when sending attachments ● Caution when opening any mail from an unknown sender - how to keep themselves safe/how to protect their computers from viruses **iCreate L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCommunicate L1** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iTech iCSI** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe ● Using equipment safely and respectfully	**iOffice L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCreate L2** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCommunicate L2** ● Taking photos ● Dangers of including a school logo **iTech iCSI** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iOffice L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCreate L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCommunicate L3** ● Make videos, take photos and record their voices - safest way to do all this to protect personal information **iTech iCSI** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe	**iOffice L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCreate L3** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe **iCommunicate L3** ● Make videos, take photos and record their voices - safest way to do all this to protect personal information **iTech iCSI** ● Acceptable and unacceptable use of iPads ● Behaviour - productive and safe
Vocab		Algorithm, debug/ging, password, technology, save, animation, computer, code/coding	Algorithm, debug/ging, password, save, animation, computer, edit/ing, technology, code/coding	Algorithm, debug/ging, email, virus, code/coding, Vlogs, Blogs, Podcasts and Channels, internet, animation, WAN and LAN, input and output,	Algorithm, debug/ging, code/coding, internet, animation, input and output, collaboration, copy and paste, import	Algorithm, debug/ging, code/coding, internet, animation, input and output, collaboration, copy and paste, import, interdepartmental	Algorithm, debug/ging, code/coding, internet, animation, input and output, collaboration, copy and paste, import, interdepartmental

				collaboration, copy and paste			