





YR	Autumn	
	Computer science Bee-Bots	Vocab: program, forward, back, backwards, right, left, arrow, direction, turn, straight on, directions, route, instructions
	Required prior knowledge Children should know:  New learning. Children need lots of time to play with the Bee-Bots before KS1.	<ul> <li>End point</li> <li>To understand that Bee-Bots need to be programmed not pushed</li> <li>To experiment with programming a Bee-bot/Blue-bot</li> <li>To guide the Bee-Bots to certain points</li> </ul>
	Spring Digital literacy	Vacabi :B. L.
	Digital literacy Photography	Vocab: iPad, photograph, camera, PicCollage app
	Required prior knowledge Children should know:  New learning	<ul> <li>End point</li> <li>To use the camera feature</li> <li>To take photographs</li> <li>To use PicCollage, add a title, name and save</li> </ul>
	Information technology	Vocab: technology, photographs, appliances
	Technology hunt	
	Required prior knowledge Children should know:  • New learning	<ul> <li>End point</li> <li>To recognise that a range of technology is used in places such as homes and schools.</li> <li>To select and use technology for particular purposes.</li> </ul>







Summer	
Computer Science	Vocab: Bee-Bot, turn, program
Bee-Bot emulator	
Required prior knowledge Children should know:  • to follow instructions as part of practical activities and games  • to learn to give simple instructions  • to learn that an algorithm is a set of instructions to carry out a task, in a specific order  • to learn how to explore and tinker with hardware to develop familiarity and introduce relevant vocabulary	<ul> <li>End point</li> <li>To know how to operate simple equipment.</li> <li>To complete a simple program on a computer.</li> <li>To experiment with programming a Bee-bot/Blue-bot</li> <li>To learn that an algorithm is a set of instructions to carry out a task, in a specific order</li> </ul>







Y1	Autumn		
	Digital Creativity	Vocab: Unit 1: Swipe, unlock/lock, app, screenshot, tab, shapes, format, image, shadow, border, glow, effect, pen, line weight, line style, resize, rotate Unit 2: Slideshow, run show, exit, slide layout, text box, bullet image, gradient Unit 3: Flip, image editing, capture, range, angle, pano, slo-mo, portrait, landscape, filter	
	Unit 1: iPad basics and digital art Children should know:  • Some basic iPad handling from EYFS	<ul> <li>End point</li> <li>To know the basics of handling an iPad (open/close apps, navigate desktop, search apps, identify common apps, lock screen, save/open files, take a screenshot)</li> <li>To be able to access formatting tool options and navigate them using tabs</li> <li>To insert and format shapes in Pages to create pictures</li> <li>To use the touch screen to resize and rotate a shape</li> <li>To format images in Word and apply special effects</li> <li>To use the Doodle Buddy app to create patterns using various pen and colour options</li> </ul>	
	Unit 2: Presentations – introduction to Keynote Required prior knowledge Children should know: New learning	<ul> <li>End point</li> <li>To create a simple slideshow</li> <li>To add a new slide to a presentation</li> <li>To run and exit a show</li> <li>To select layout options for a slide</li> </ul>	







	<ul> <li>To add and format text in a presentation</li> <li>To format a background in a presentation</li> <li>To add images to a presentation</li> </ul>
Unit 3: iPad cameras Required prior knowledge Children should know:  • How to use the camera feature  • How to take photographs	<ul> <li>End point</li> <li>To use the camera on an iPad to capture photos</li> <li>To use 'pano' on a camera</li> <li>To use 'slo-mo' on a camera</li> <li>To use 'camera flip' to reverse a camera</li> <li>and simple editing options.</li> <li>To know and practice some photography techniques (angle, range, steady hand, focus)</li> <li>To capture photos in portrait and landscape view</li> <li>To apply filters to an image</li> </ul>
Spring Computer Science	Vocab:
Computer Science	Unit 1: Code, command, algorithm, sequence, start, stop, move, grow, shrink, repeat Unit 2: Trigger, stop blocks, loops, movement, sprite, stage, move, upload, screenshot
Unit 1: Coding Required prior knowledge Children should know:  • New learning	<ul> <li>End point</li> <li>To understand some basic coding commands (e.g. move grow, shrink, repeat) using Daisy the Dino and Tynker Jr</li> <li>To know that a command is an instruction</li> <li>To know that computers follow (run) commands</li> <li>To be able to put code into a logical sequence</li> <li>To know that code can contain errors</li> </ul>







<ul> <li>Unit 2: Coding</li> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>What an algorithm is</li> <li>How start and stop blocks are used in a sequence</li> <li>Some basic coding commands</li> </ul> </li> </ul>	<ul> <li>End point</li> <li>To use Scratch Jr to create simple algorithms using trigger/stop blocks, loops and movement</li> <li>To know what the stage is</li> <li>To search and select backgrounds and sprites in a library and add them to the stage</li> <li>To be able to remove unwanted code</li> <li>To use logical reasoning to work out a task</li> <li>To create simple algorithms in a sequence</li> </ul>
Summer	
Digital Productivity	Vocab: Unit 1: Online safety, report, cyberbullying Unit 2: 'Home row', delete, return, font, bold, italics, underline, alignment, colour, QR code, upload, show, hide, rename, save Unit 3: Web browser, search engine, key word search, rank, sponsored ads, search results, tab
Unit 1: Online Safety Required prior knowledge Children should know:  New learning	<ul> <li>End point</li> <li>To understand the importance of staying safe when using technology</li> <li>To know the SMART principles: (Stay safe, Don't up, Accepting files, Reliable, Tell someone)</li> <li>To focus on Meeting, Accepting and Telling</li> </ul>
Unit 2: Word processing Required prior knowledge Children should know:  Basic iPad handling	<ul> <li>End point</li> <li>To understand what the 'home row' is and be able to position their fingers correctly on a keyboard</li> <li>To learn some Word Processing basics (font, formatting, and text alignment)</li> </ul>







	<ul> <li>To learn how to use the return and delete keys</li> <li>To be able to 'show' and 'hide' the keyboard on an iPad</li> <li>To be able to type some words in a document</li> <li>To learn how to scan a QR code and upload a photo to an online platform</li> <li>To be able to rename a Pages document</li> </ul>
Unit 3: Internet skills Required prior knowledge Children should know:  New learning	<ul> <li>End point</li> <li>To know what a web browser is</li> <li>To know what a search engine is</li> <li>To use a search engine to perform a key word search</li> <li>To understand search results (category tabs, ranking filters)</li> </ul>
	<ul><li>To recognise sponsored ads</li><li>To find information and images online</li></ul>







Y2	Autumn		
	Digital productivity	Vocab:Unit 1: Annotation tools, text box, border, font options, upload, draw, emoji Unit 2: Pop-ups, chatrooms, block, report, reliability Unit 3: Shapes, text boxes, alignment, special effects, wrap text	
	Unit 1: IT skills in SeeSaw Required prior knowledge Children should know:  • How to access SeeSaw using their class QR code • How to upload content to SeeSaw  Unit 2: Online Safety Required prior knowledge Children should know: • The SMART rules of online safety	<ul> <li>End point         <ul> <li>To use the 'drawing' interface in Seesaw to practice using the inbuilt annotation tools</li> <li>To use the 'notes' feature in Seesaw to develop typing skills</li> <li>To access the emoji keyboard to add illustrations</li> </ul> </li> <li>End point         <ul> <li>To know the dangers of pop-ups, web content and online chatrooms.</li> <li>To understand how to block and report cyberbullies</li> <li>To recognise that websites are not always reliable or trustworthy</li> </ul> </li> </ul>	
	Unit 3: Word processing Required prior knowledge Children should know:  • What the 'home row' is  • How to change the font style, size and colour and add emphasis to text  • How to use the return and delete keys when word processing  • How to add a shape to a document	<ul> <li>To know that anyone can create a website</li> <li>End point</li> <li>To create and rename a document in Pages</li> <li>To add text and images to a document</li> <li>To add text to a shape</li> <li>To format a document with colour, font options and designs options (shadow, border, line style, line weight)</li> <li>To use zoom to oversee a document layout</li> <li>To make effective use of white space</li> <li>To create posters using images, shapes and text</li> </ul>	







How to resize and rotate objects	To know and use alignment options
Spring	
Computer Science	Vocab: Unit 1: Coding, algorithm, sprite, stage, background, grid, shrink, grow, flip, speech, speed, trigger Unit 2: Coding, command, run, debug, format, slideshow, screenshot, import, transition
Unit 1: Coding Required prior knowledge Children should know:  • How to create simple algorithms in Scratch Jr using start / stop blocks and movement blocks  • How to select backgrounds and sprites in Scratch Jr	<ul> <li>End point</li> <li>To know that an algorithm is a set of step-by-step instructions</li> <li>To use Scratch Jr to create an animation</li> <li>To learn new commands to resize, flip, add speech, and change the speed of movement</li> <li>To add additional scenes to an animation</li> <li>To enable and disable stage gridlines to calculate distance</li> <li>To set the start trigger to 'on tap'</li> </ul>
Unit 2: Presentations and Coding Required prior knowledge Children should know:  • How to create algorithms using a variety of commands in a logical sequence • How to create a simple slideshow with text and images	<ul> <li>End point</li> <li>To add screenshots of code (from Coding Safari) to a presentation and annotate them using text boxes</li> <li>To format a presentation with effective fonts and use of colour.</li> <li>To apply transition effects to a slideshow</li> </ul>







Summer	Summer	
Digital Creativity	Vocab: Unit 1: Comic, book, square, frames, gutters, speech, text, images, format, full screen Unit 2: Screenshot, upload, coding, algorithm, comment, annotate	
Unit 1: Book Creator Required prior knowledge Children should know:  • New learning	<ul> <li>End point</li> <li>"Animal Madness". To create a simple comic using Book Creator.</li> <li>To use frames, speech/thought bubbles, text and images.</li> <li>To format the gutters by adding colour and create images for the comic using backgrounds and sprites in the Scratch Jr library.</li> </ul>	
Unit 2: Coding Required prior knowledge Children should know:  • How to use a range of trigger blocks and basic end blocks	<ul> <li>End point</li> <li>To complete coding tasks in Tynker Jr and on Hour of Code</li> <li>To screenshot code and upload to Seesaw</li> <li>To use the annotation tools and 'comment' features in Seesaw to show understanding.</li> </ul>	







Y3	Autumn		
	Digital Productivity	Vocab:Unit 1: Format, font, font style, effects, Bluetooth, keyboard, touch typing, home row Unit 2: Logo, text box, pen, pencil, erase, magic pen, background, shapes, emoji, style, edit, delete Unit 3: Slide, run show, image, text, copy, paste, transparent, search filter, custom animation, transition, gradient	
	<ul> <li>Unit 1: Typing skills</li> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>What the 'home row' is</li> <li>How to change the font style, size and colour and add emphasis to text</li> <li>How to use the return and delete keys when word processing</li> </ul> </li> </ul>	<ul> <li>End point</li> <li>To use Bluetooth keyboards and understand that they use a wireless connection</li> <li>To learn the basics of touch typing and the home row</li> <li>To use an online learning site and follow audio and written instructions</li> <li>To develop typing skills (finger positioning, speed, accuracy)</li> <li>To use a keyboard to type up sentences in Microsoft Word</li> <li>To format sentences to show a range of different font styles and effects</li> </ul>	
	<ul> <li>Unit 2: SeeSaw</li> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>How to use the 'drawing' interface to practice using the inbuilt annotation tools.</li> <li>How to use the 'notes' feature to develop typing skills by writing a short story.</li> <li>How to access the emoji keyboard to add illustrations.</li> </ul> </li> </ul>	<ul> <li>End point</li> <li>To use the 'drawing' program to design a new class logo</li> <li>To edit the style options of a text box</li> <li>To use the 'notes' feature to type up a short story</li> </ul>	







Unit 3: Presentations (and the internet) Required prior knowledge Children should know:  • How to create a basic Keynote presentation • How to perform simple online searches • That not all websites are reliable	<ul> <li>End point</li> <li>To create a sports presentation and apply custom animations to text and images</li> <li>To set a background colour to 'gradient' and adjust the direction</li> <li>To apply custom animation to objects</li> <li>To format images by applying special effects</li> <li>To use the internet to research a topic</li> <li>To copy and paste resources from the internet</li> <li>To know what 'transparent' images are and understand their benefits</li> <li>To use the search engine tools to filter transparent images</li> </ul>		
Spring			
Computer Science	Vocab: Unit 1: Coding, algorithm, loop, IF statements, syntax Unit 2: Sequences, debugging, loops, repeat Unit 3: Wait commands, broadcast, sequence, parallel coding		
Unit 1: Coding in Tynker  Required prior knowledge Children should know:  • How to create simple algorithms in Scratch Jr using start / stop blocks and movement blocks  • How to select backgrounds and sprites in Scratch Jr  • How to complete coding tasks in Tynker Jr	<ul> <li>End point</li> <li>To be able to define an algorithm</li> <li>To understand the importance of syntax and accuracy in coding</li> <li>To understand the importance of detail in coding e.g. direction</li> <li>To learn different loop options</li> <li>To understand when and how IF statements are used</li> <li>To develop debugging skills by fixing incorrect code</li> </ul>		







Unit 2: Coding in Lightbot Required prior knowledge Children should know:  • How to complete a range of coding activities in Space Cadets.  • The different loop options and how to use IF statements • How to develop debugging skills by fixing incorrect code	<ul> <li>End point</li> <li>To use logical reasoning to design coding sequences</li> <li>To use loops in coding</li> <li>To be able to define 'debugging'</li> </ul>
Unit 3: Coding in Scratch Jr  Required prior knowledge Children should know:  • How to create simple algorithms in Scratch Jr using start/stop blocks and movement blocks  • How to select backgrounds and sprites in Scratch Jr  • How to complete coding tasks in Tynker Jr	<ul> <li>End point</li> <li>To use wait commands to alter the timings of an animation</li> <li>To use broadcasts within coding to trigger an action</li> <li>To create coded animations that use parallel block sequences</li> </ul>
Summer	
Digital Creativity	Vocab:Unit 1: Import, sketch, transparent canvas, fill options (solid, linear, radial, pattern), opacity, RGB, palette, slider, undo, history, FX, blend mode Unit 2: Range, focus, angle, foreground, background, frame, stickers, animation, layout, template, contrast
<ul> <li>Unit 1: Digital art</li> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>How to use a range of pen options within digital art</li> <li>How to edit colours and pen size</li> <li>How to use an eraser</li> </ul> </li> </ul>	<ul> <li>End point</li> <li>To be able to undo last action and undo history</li> <li>Know how transparency is represented in digital art (checked pattern)</li> <li>To know what a canvas is and a range of canvas options</li> <li>To be able to import a background onto a blank canvas         <ul> <li>To edit clipart by adjusting colour FX (effects) and blend mode settings</li> </ul> </li> </ul>







	To design and edit complex shapes using settings sliders and colour options (radial, linear, pattern, solid)
Unit 2: Photography using iPads Required prior knowledge Children should know:  • How to use an iPad to capture images • Some basic image editing options to improve picture	<ul> <li>End point</li> <li>To develop photography skills to capture a range of related images</li> <li>To access design templates within a software package</li> <li>To add stickers and text boxes to a collage</li> <li>To edit textbox options, including style, size and colour</li> <li>To understand the need for colour contrasts when layering objects</li> <li>To save an online project to a device</li> </ul>







Y4	Autumn	
	Digital Productivity	Vocab: Unit 1: Home row, speed, touch type, accuracy, typo Unit 2: Network, PAN/LAN/WAN, ethernet, fibre-optic, satellite, bandwidth, byte, binary, data transfer, topologies, IP address, URL Unit 3: input, output, process, devices, components, presentation, multimedia
	Unit 1 – Typing skills  Required prior knowledge  Children should know:  • The general layout of a QWERTY keyboard  • How to position their fingers on the 'home row'  • How to use common function keys	<ul> <li>End point</li> <li>To be able to type more letters/words whilst looking at the monitor</li> <li>To increase typing speed</li> <li>To improve typing accuracy</li> </ul>
	Unit 2 – Networks  Required prior knowledge Children should know:  • What the internet is an how to access it • That computers can view websites through the internet	<ul> <li>End point</li> <li>To know what a network is and that computers can communicate with other devices</li> <li>To know the difference between PANs, LANs and WANs</li> <li>To know that digital data is transmitted via ethernet cables, fibre optic cables and satellites</li> <li>To know some common network topologies (ring/bus/star/mesh)</li> <li>To understand that computers communicate using binary code</li> <li>To know various data sizes (byte, KB, MB, GB, TB)</li> </ul>



Unit 3 – PC basics





Dequired prior knowledge	To know the difference between input process and
<ul> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>That there are a variety of computing devices and peripherals</li> <li>How to create a multi-media slideshow presentation</li> </ul> </li> </ul>	<ul> <li>To know the difference between input, process and output</li> <li>To identify common input and output devices e.g. mous keyboard, monitor, printer</li> <li>To understand the difference between hardware and software</li> <li>To know some of the components that are found inside computer e.g. motherboard, sound card and graphics card</li> <li>To create a multimedia presentation using Keynote</li> <li>To effectively use background colour, fonts, tables, images, transition effects and animation effects</li> <li>To conduct effective and relevant image searches using tool options in Safari</li> <li>To copy online images into a presentation</li> </ul>
Spring Computer Science	Vocab:
	Unit 1: Coding, algorithm, sprite, stage, flip, loop, parallel coding, freehand draw Unit 2: Coding, debugging, rotate, stage coordinates, costumes, trigger, broadcast, wait, resize, switch, forever
Unit 1: Coding and Book Creator  Required prior knowledge Children should know:  The key features of Coding How to create a project using Scratch Jr	<ul> <li>End point</li> <li>To create and edit a range of sprites and backgrounds</li> <li>To use the paint editing tools in Scratch Jr to add shape and freehand drawing</li> <li>To create a multi-scene animation using 'go to scene' end blocks</li> </ul>

End point







	<ul> <li>To insert screenshots into a digital book</li> <li>To format a book effectively</li> <li>To edit document detail settings</li> </ul>
Unit 2: Further Coding in Scratch 3.0 Required prior knowledge Children should know:  • New learning (online version)	<ul> <li>End point</li> <li>To have a good understanding of common terms used in coding</li> <li>To browse and select sprite costumes in an animation using 'switch costume' blocks</li> <li>To understand how to position a sprite using coordinates</li> <li>To be able to rotate and resize sprites</li> <li>To use forever loops in an algorithm</li> </ul>
Summer	
Digital Creativity	Vocab: Unit 1: Pair, tools, pen, sketch, crayon, highlighter, pixel, RGB, opacity, pen-to-text, freehand, typeface, shape recognition Unit 2: Operators, variables, score, ask and wait, if/else, show/hide
Unit 1: Apple Pencil Required prior knowledge: Children should know:  New learning	<ul> <li>End point</li> <li>To pair an Apple Pencil to an iPad</li> <li>To access and use the drawing tools in Apple notes</li> <li>To know what pixels are</li> <li>To rotate an Apple pencil to adjust eraser size</li> <li>To know what opacity is and adjust opacity settings for a pen</li> <li>To use the pen-to-text tool to convert freehand to typeface</li> <li>To use shape recognition to create perfect shapes</li> </ul>







#### <u>Unit 2: Quizzes (in Scratch 3.0 and kahoot)</u> Required prior knowledge:

Children should know:

- How to use sprites and backgrounds
- How to use movement and speech commands
- How to switch sprite costumes

#### **End point**

- To design and create a quiz in Scratch 3.0 To use conditionals within code
- To add a score variable to an algorithm
- To use operators within an algorithm
- To use operators and variables to calculate a score
- To create an interactive project that enables a user to enter data







<b>Y5</b>	Autumn	
	Digital Productivity	Vocab: Unit 1: Touch typing, 'home row', accuracy, speed, alternate keys, characters Unit 2: Cyberbullying, likes/dislikes, positive and negative impact, scroll addiction, text box, table, cell-formatting, header, footer Unit 3: Timings, multiple-choice, true/false, settings, embed video, trim
	Unit 1 – Typing skills Required prior knowledge Children should know:  • The general layout of a QWERTY keyboard • How to position their fingers on the 'home row' • How to use common function keys Unit 2 – Digital wellbeing Required prior knowledge Children should know:	<ul> <li>End point         <ul> <li>To be able to type more letters/words whilst looking at the monitor</li> <li>To increase typing speed</li> <li>To improve typing accuracy</li> </ul> </li> <li>End point         <ul> <li>To understand the positive and negative impact of technology on health, relationships, work and the</li> </ul> </li> </ul>
	<ul> <li>That online habits affect people in different ways</li> <li>How to identify strategies for developing healthy online habits</li> </ul>	<ul> <li>environment.</li> <li>To create an information sheet on Digital Wellbeing using text boxes, word art, tables, images, headers and footers</li> <li>To format a document using a range of styles and techniques to make it more presentable</li> <li>To add a header and footer to a document</li> </ul>
	<u>Unit 3 – Digital quizzes (Kahoot)</u> <u>Required prior knowledge</u> Children should know:	<ul> <li>End point</li> <li>To create a digital quiz using both multiple choice and true/false question options</li> </ul>
	How to play quizzes in Kahoot!     How to browse online videos and images	<ul> <li>To search for and insert relevant online images and videos to illustrate questions</li> <li>To set appropriate timings for a quiz</li> </ul>







	<ul> <li>To test the quiz on peers and understand the important of audience feedback</li> <li>To trim videos from YouTube</li> </ul>
Spring	
Computer Science	Vocab: Unit 1: Algorithm, sequence, functions, decomposition iteration, abstraction Unit 2: 'Go to' coordinates, sensor touching colour, conditional statements, forever loop, stop all, variable
Unit 1: Coding in Tynker  Required prior knowledge Children should know:  • How to create algorithms • How to debug code • How to sort code into a sequence	<ul> <li>End point</li> <li>To use computational thinking when creating algorithms</li> <li>To use decomposition and abstraction to improve codir</li> <li>To create functions for an algorithm</li> </ul>
Unit 2: Advanced Coding Required prior knowledge Children should know:  • How to use sprites and backgrounds effectively • How to use if statements • How to use continual loops	<ul> <li>End point</li> <li>To create an interactive pong game in Scratch 3.0</li> <li>To use sensors within a game</li> <li>To use IF statements within a game to allow for multiple outcomes</li> <li>To use 'wait until' commands to provide a condition to a algorithm</li> <li>To use audio commands within an algorithm</li> <li>To control multiple sprites within an animation</li> </ul>







Summer	
Digital Creativity	Vocab: Unit 1: Pair, sketch, pen, select, erase, design, fill, canvas, blend, layer, pipette Unit 2: Frame, speed, play back, onion layers, convert, MP4, duplicate
Unit 1: Digital art using Apple pencils Required prior knowledge Children should know:  • How to pair an Apple pencil to an iPad • How to use the touch sensitive tip effectively	<ul> <li>End point</li> <li>To use additional pen options such as calligraphy, fur, sketchy and stamp.</li> <li>To drag and drop colours on to a canvas using an Apple pencil</li> <li>To use the blend feature to manipulate a drawing</li> <li>To understand the various colour palette options in Procreate and their individual benefits</li> <li>To know what a pipette is and how to use it</li> <li>To add layers to a piece of artwork</li> </ul>
Unit 2: Animation Required prior knowledge Children should know:  • New learning (animation)	<ul> <li>End point</li> <li>To create a simple animation using several frames (photo stills) in Stop Motion</li> <li>To create simple animations using animation assist in Procreate</li> <li>To adjust the speed of an animation</li> <li>To know what an onion layer is</li> <li>To adjust the number of visible onion layers when designing an animation</li> <li>To duplicate a layer and understand the benefits of this feature</li> <li>To convert an animation into an MP4 video</li> </ul>







Y6	Autumn	
	Digital Productivity	Vocab: Unit 1: Touch typing, 'home row', accuracy, speed, alternate keys, characters Unit 2: Digital footprint, hyperlinks, transition, animation, social media, cyberbullying, block, report, privacy settings, scroll addiction, grooming, subscriptions, SPAM, catfishing, notifications, locator services, disable, enable
	Unit 1 – Typing skills Required prior knowledge Children should know:  • The general layout of a QWERTY keyboard • How to position their fingers on the 'home row' • How to use common function keys	<ul> <li>End point</li> <li>To be able to type more letters/words whilst looking at the monitor</li> <li>To increase typing speed</li> <li>To improve typing accuracy</li> </ul>
	Unit 2 – Presentations and online safety Required prior knowledge Children should know:  • That online platforms present risks • That people can be bullied online • How to create a multimedia presentation with text, images, tables and transitions	<ul> <li>End point</li> <li>To understand what a digital footprint is</li> <li>To identify a range of social media applications, including WhatsApp, SnapChat, YouTube and Instagram</li> <li>To identify some potential risks when using social media, such as cyberbullying, unwanted subscriptions, grooming and catfishing privacy settings</li> <li>To know what targeted marketing is</li> <li>To know what notifications are and the advantages/disadvantages of enabling/disabling them</li> </ul>







	<ul> <li>To know there are laws regarding social media, including age restrictions age</li> <li>To customise animation setting in a presentation (automatic/click/with/after/ timer)</li> <li>To create text and image hyperlinks to navigate a presentation</li> </ul>
Spring	
Computer Science	Vocab: Unit 1: Algorithm, sequence, functions, decomposition iteration, nested loops Unit 2: Logical reasoning, computational thinking, screenshots, caption
<ul> <li>Unit 1 - Coding in swift</li> <li>Required prior knowledge</li> <li>Children should know: <ul> <li>How to create complex algorithms using functions and loops</li> <li>How to test and debug their code</li> </ul> </li> </ul>	<ul> <li>End point</li> <li>To use a touchscreen to navigate an online world</li> <li>To understand the benefits of eliminating unnecessary code</li> <li>To create complex functions to complete multiple tasks</li> <li>To use nested loops in an algorithm</li> <li>To use IF statements in an algorithm</li> </ul>
Unit 2 – Coding in SpriteBox Required prior knowledge  Children should know:  How to create complex algorithms using functions and loops How to test and debug their code How to create a book in Book Creator using backgrounds, text and images	<ul> <li>End point:         <ul> <li>To complete several coding challenges in SpriteBox using computational thinking and logical reasoning</li> <li>To design an avatar</li> <li>To design and create a user guide in Book Creator</li> <li>To add and delete pages in an e-Book</li> <li>To use titles and captions to add text to a page</li> </ul> </li> </ul>







Summer		
Digital Creativity	Vocab: Unit 1: Digital art, blur, noise, liquify Unit 2: Trailer, edit, screen record, storyboard, trim, clip, drop down menu, close-up, wide, action, landscape Unit 3: Pair, connect, flash, reset, LED	
Unit 1: Procreate (advanced) Required prior knowledge Children should know:  How to use the touch sensitive tip effectively How to use various pen tools How to use the blend feature and colour palette	<ul> <li>End point</li> <li>To develop digital art skills by creating more complex designs in procreate.</li> <li>To use a range of adjustment options to blur, add noise and liquify a drawing</li> </ul>	
Unit 2: Making iMovies Required prior knowledge Children should know:  • How to capture video using an iPad	<ul> <li>End point</li> <li>To create a movie trailer in iMovie using the video camera and online screen record</li> <li>To enable screen record within the control centre of an iPad</li> <li>To mute/unmute the microphone when using screen record</li> <li>To use the screen record feature to copy clips from online videos</li> <li>To use trim to remove unwanted video at the start/end of a clip</li> <li>To edit the 'outline' text for a trailer and use drop down menus to access further options</li> <li>To insert video files from a device into a storyboard</li> <li>To know a range of clip options (close-up, landscape, wide, action)</li> </ul>	







<b>Unit 3: Programming Micro:Bits</b>
Required prior knowledge
Children should know:

New learning

#### **End point**

- To pair a Micro:Bit to an iPad
- To connect the essential components of a Micro:Bit
- To program a Micro:Bit using various triggers and commands
- To flash messages to a Micro:Bit
- To control LED lights and operate a traffic light model through code commands