

Information Technology Unit Overview

	Unit 1	Apps/Suites	Unit 2	Apps/Suites
EYFS				
	<ol style="list-style-type: none"> How to open the Camera app on an iPad How to frame a photo Choose type of image – photo/video etc Zoom function Review images – thumbnail, Photos, Camera Roll in apps Use Clips to take photos Add voiceovers in Clips 	<p>Clips / Camera</p> <p><u>Endpoint Ideas</u></p> <p>Reception Autumn 1: Our school community- photos of people who help us in school (Step 1,2,3) Autumn 2: (Maths link) Spatial awareness / positional language- create flashcards (Step 1,2,3,4) Spring 2: Identifying things that grow (Step 4,5,6)</p> <p>Nursery Autumn 1: All About Me- My Friend (Step 1) Autumn 2: (Maths link) Capturing AB patterns (Step 2) Spring 2: Identifying things that grow (Step 1,2,3)</p> <p><u>Project Evolve links</u></p> <p>Online Relationships - I can give examples of how I (might) use technology to communicate with people I know</p>	<ol style="list-style-type: none"> How to open and access Book Creator Select a book format Take a picture to add onto a page Move photos into place Add sound via the microphone button 	<p>Book Creator</p> <p><u>Endpoint Ideas</u></p> <p>Using Book Creator create:</p> <p>Reception Summer 1: Sequencing how to make chocolate crispy cakes (Step 1,2,3) Summer 2: Create a short narrative based on 'The Very Hungry Caterpillar' (Step 1-5)</p> <p>Nursery Summer 1: Tell nursery rhyme- Planting Flowers (Frere Jacques) Teacher made for children to view (Step 1-5) Summer 2: Look at Reception's stories created on Book Creator (Step 1)</p> <p><u>Project Evolve links</u></p> <p>Privacy & Security - I can explain how some people may have devices in their homes connected to the internet and give examples (e.g. lights, fridges, toys, televisions).</p>

Year 1	Using Clips to Create Video		Taking photos	
	<ol style="list-style-type: none"> 1. Take and review photos and video content 2. Import chosen videos and photos into Clips 3. Use Stickers and Voice recordings to create a complete Clip 	<p>Clips / Camera</p> <p><u>Endpoint Ideas</u> Autumn 2 – Geography Using Clips create a weather report</p> <p><u>Project Evolve links</u> Online Relationships - I can recognise some ways in which the internet can be used to communicate.</p>	<ol style="list-style-type: none"> 1. Take and review photos and video content 2. Select a photo or video to add onto a page 3. Move photos and videos into place 4. Add sound via the microphone button 5. Add Text within the Clip 6. Add Handwriting with the pen button 	<p>Book Creator</p> <p><u>Endpoint Ideas</u> Science Spring 2 Cooking & nutrition Using Book Creator create step by step instructions for making e.g. smoothies</p> <p><u>Project Evolve links</u> Managing Online Information - I can talk about how to use the internet as a way of finding information online.</p> <p>I can give simple examples of how to find information using digital technologies, e.g. search engines, voice activated searching.</p> <p>I can use simple keywords in search engines</p> <p>I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections).</p>
Year 2	Data Handling & Charts		Finalised Clip & Book Creator products	
	<ol style="list-style-type: none"> 1. Collect data that can be used in charts and graphs (link to topic). 2. Using Numbers (or Excel – skip to step 5 first) to 	<p>Data Collection & Numbers & Windows & Office 365</p>	<ol style="list-style-type: none"> 1. Reviewing quality of photos and videos and creating new if needed 2. Adding Music in Clips 3. Adding Titles in Clips 	<p>Clips, Book Creator & Camera</p>

	<p>record and organise data collected</p> <ol style="list-style-type: none"> Using same data, create a bar chart Export bar chart as a photo to create a Clip or Book to explain work and understanding Introduction to Windows devices and logging on process 	<p><u>Endpoint Ideas</u></p> <p>Autumn 2 Geography – What is the weather like in the UK? Collect data of the weather over e.g 2weeks/1month. Use data to create a bar chart in Numbers</p> <p><u>Project Evolve links</u> <u>Online Reputation</u> I can identify ways that I can put information on the internet.</p> <p>I can recognise that information can stay online and could be copied.</p> <p>(Link to weather data – discuss how it is always there once published.)</p>	<ol style="list-style-type: none"> Adding Posters in Clips Using Book Creator to create a Comic Sequence events to structure the comic book Optional showcasing of finished products – School, Hub or Trust wide 	<p><u>Endpoint Ideas</u></p> <p>Summer 1 – Cooking and nutrition: A balanced diet</p> <p>Using Book Creator create a book to show - What does my balanced diet look like?</p> <p><u>Project Evolve links</u> <u>Copyright & Ownership</u></p> <p>I can name my work so that others know it belongs to me. I can save my work under a suitable title or name so that others know it belongs to me (e.g. filename, name on content).</p> <p>I understand that work created by others does not belong to me even if I save a copy</p> <p>Privacy & Security</p> <p>Objectives 1 & 2</p>
Year 3	Multimedia introduction	Data Handling & logging		
	<p>Introduction to iMovie and basic features</p> <p>Add photos, videos and voiceovers onto a specific timeline</p> <p>Introduction to Keynote for presenting learning</p> <p>Creating slides with transition, adding photos and text</p> <p>Using any of the above skills, create a final topic piece</p> <p>Using templates in Pages to write for a purpose – talking to an audience</p>	<p>iMovie, Keynote, Pages & Office 365 equivalents</p> <p><u>Endpoint Ideas</u></p> <p>Using Keynote create a presentation to link to History/Geography topic of your choice. E.g. Why do people live near volcanos?</p>	<ol style="list-style-type: none"> Collect data on Sound for Science topic that can be used in charts and graphs (link to topic), using data loggers or decibel apps. Using Numbers (or Excel) to record and organise data collected Option to use Microsoft Forms to collaborate and request others complete a form to collect data – teacher led 	<p>Data Collection & Numbers & Forms/Excel plus external Data Loggers or Apps</p> <p><u>Endpoint Ideas</u></p> <p>Using Numbers or Excel app: Collect data linked to science topic of your choice, e.g. Rocks/magnets/plants. Choose a suitable graph to present the data. Take a screenshot of the finished</p>

			4. Choose suitable graph or chart type to showcase data collected 5. Export bar chart as a photo to create an iMovie or Keynote to explain work and understanding	graph(s) and import to keynote or imovie. Use the voiceover tool to explain your findings.
		Project Evolve links Privacy & Security Objectives 1,4,5,(7+8)		Project Evolve links Online Bullying Objectives 1 & 2
Year 4	Further refinement of multimedia skills		Productivity & Communication	
	1. Refine iMovie skills to include, Titles, Transitions and Music 2. Introduce Green Screen to create content to include in iMovie – work collaboratively 3. Introduction to loops in Garageband to create an original piece of music 4. Add audio recording to piece of music – e.g. rap a narrative	iMovie, Garageband & Pages Endpoint Ideas Link to Autmn 2 English – Moon man Using iMovie work collaboratively to create a movie about the phases of the moon. Use Garageband to create an original piece of music. Save and export music track and upload to iMovie. Present to class in a movie night style lesson.	1. Using Pages to write for a purpose – talking to an audience 2. Using Keynote to present learning, introducing features such as animations (Follow path), magic move (layers) and drawings 3. Introduction to Office 365 and email. Understand how email works and when to use it 4. Explore collaboration tools within Office 365	Pages & Keynote or Office 365 equivalents Endpoint Ideas Link to English topic of your choice – e.g. Stone age / Wild / Tin forest Working collaboratively, use Pages to create a persuasive script. Using keynote or iMovie create a presentation for persuasive content e.g. “would you want to live in the stone age?” use voice over function to record persuasive script. Present to the class.
		Project Evolve links Privacy & Security Objectives 2,3,6 Self Image & Identity Objective 1		Project Evolve links Online Bullying Objective 4 Online Relationships Objective 1

Year 5	Podcasting	Stop Frame Animation Data Handling extended
	<div data-bbox="289 175 669 594"> <ol style="list-style-type: none"> 1. Explore podcasts. What themes/jingles used. 2. Explore Garageband (recording and editing audio, adding effects, mixing audio levels, augmenting with loops) 3. Podcast to be created on current topic themes 4. Create script for Podcast in Pages and use as an autocue </div> <div data-bbox="680 175 1056 321">Garageband & Pages</div> <div data-bbox="680 329 1056 1073"> <p><u>Endpoint Ideas</u></p> <p>Using Pages for script creation and Garageband for music creation create a podcast based on e.g. Spring 1 – Geography – “Where does our energy comes from?” or “Why should we recycle?” eco / recycling effects on our planet. Climate change etc. Renewables.</p> <p>Children work collaboratively to create a script and use autocue to help record in Garageband. Children create a podcast jingle intro and outro using preset functions. Listen to HGPA Digital Leader podcast on school website as a starting point.</p> </div> <div data-bbox="680 1081 1056 1490"> <p><u>Project Evolve links</u></p> <p><u>Privacy & Security Objectives 9 + 10</u></p> <p><u>Online Bullying Objective 4</u></p> <p><u>Online Relationships Objective 1</u></p> </div>	<div data-bbox="1079 175 1528 610"> <p>Animation</p> <ol style="list-style-type: none"> 1. Create a storyboard for a scene 2. Create animation using objects, people or Playdoh 3. Export to iMovie and add voice, music and effects <p>Numbers (or Excel)</p> <ol style="list-style-type: none"> 1. Create table of data and begin using formula (sum etc.) and conditional formatting (highlight cells) 2. Represent data in graphs </div> <div data-bbox="1539 175 1997 321">iMotion, iMovie & Numbers of Office 365 equivalent</div> <div data-bbox="1539 329 1997 1073"> <p><u>Endpoint Ideas</u></p> <p>Using iMotion create a stop frame animation linked to a topic of your choice – e.g. Suffragettes or PAX</p> <p>Pax example – Chn create a storyboard for the journey PAX goes on with his fox friends. Chn then created the characters out of playdough and record the storyboard using iMovie. Chn export the movie and import to iMovie to add voice, music and effects.</p> </div> <div data-bbox="1539 1081 1997 1490"> <p><u>Project Evolve links</u></p> <p>Copyright and ownership 1 -I can demonstrate the use of search tools to find and access online content which can be reused by others.</p> <p>Copyright and ownership 2 - I can demonstrate how to make references to and acknowledge sources I have used from the internet.</p> <p>Managing Online Information</p> </div>

				Objectives 1+ 2
Year 6	3D Modelling & App Prototype		Cumulative end of learning task production	
	<p>App Prototype: Create a topic based app prototype using Keynote Non-linear presentations using links to providers users with an informative app prototype mimicking an application Critiquing other apps</p> <p>3D Modelling Explore Tinker CAD examples to understand 3D modelling and movement of objects Introduction to Tinker CAD app and basic features Link to topic to create models of text and images Export created images and use within iMovie to create final task showcasing learning</p>	<p>Keynote & Tinker CAD</p> <p><u>Endpoint Ideas</u></p> <p>Using Keynote create an App for “Why Hardwick Green is GREAT”. Chn create different pages that showcase the strengths of our school and what it is like to come here. App pages could include School Trips, OPAL, Immersive Space, (their favourite) Subjects, Staff, Friends, Rewards, RESPECT, etc. Please note: this is not an actual app it is a keynote presentation where the first page looks like an app or iPhone screen. When chn click each icon there is a link to the relevant page. It will</p>	<ol style="list-style-type: none"> 1. Exemplary use of any application taught across KS2, showcasing learning on a specific topic 2. Showcase advanced features and knowledge of the apps used in school to create a production of learning in that topic 3. Making use of collaborative skills 4. Showcase of finished products – School, Hub or Trust wide – Awards ceremony 	<p>Pupil choice based on understanding of apps learnt</p> <p><u>Endpoint Ideas</u></p> <p>Chn choose the app they have most enjoyed using and feel confident with. Chn create an end point of their choice. For example</p> <p>Garageband – create a podcast song or rap about Hardwick Green.</p> <p>iMovie – use greenscreen to create a movie with background soundtrack created in iMovie. Chn work in teams in an “The Apprentice” style way. The main team creating the movie and the “sub team” creating the soundtrack. Perhaps another chd creates the logo or brand?</p> <p>*The Apprentice references for teachers benefit!</p>

		<p>function like an actual iPad app but is in fact just a keynote presentation. The focus is on App Creation, what makes a good app and app design. E.g. button sizes, names, clear links and back buttons, home buttons, navigation etc.</p> <p>3D Modelling – this could be linked to ART WEEK and 3D sculpture. Chn create a 3D design of their sculptures for critique before they create them in real life. This will help children visualise their design compared to just drawing them in 2D on paper in the design stages.</p>		
		<p><u>Project Evolve links</u></p> <p><u>Online Reputation Objectives 1,2,3</u></p>		<p><u>Project Evolve links</u></p> <p><u>Online Reputation Objectives 4,5,6</u></p>