

	Reception	Year 1	Year 2	Year 3
E Safety covered in Year Groups and through discreet lessons.	Who Do You Trust and Who can you share information with? http://www.bbc.co.uk/guides/zwbq71	Dangers of the Internet- Keeping personal information safe and private. http://www.bbc.co.uk/guides/zwbq71 Martin Burrett Book (See MS).	Risks of using the Internet Emailing Social Networking Cyberbullying	Risks of using the Internet Social Networking Cyberbullying and Reporting Abuse Online Gaming
Coding	Ipads- Introduction to Algorithms Tea Bot Jam Sandwich Bot PE Bot- PE	Practical- Human Crane Bot - I am a Robot (Ch to be robot and others instruct them) Bee-Bots- Actually Bots and Ipad Ipad: Tinker Daisy the Dinoasaur Light Bot Hopscotch	PC: Espresso Coding Lightbot (Hour of Code) Introduction to Scratch IPads: Daisy the Dinosaur Alex Scratch junior Hopscotch	PC: Logo Scratch – Animating your Name
WeDo	Introduction sessions with WeDo	Introduction to WeDo- Building and moving backwards and forwards.	WeDo- Moving and turning.	WeDo- Linked to Science: Focused task- Forces (Pulling) Life Cycle- Frog Metamorphism
E Safety	N/A	N/A	N/A	N/A
Digit Learning - This in the main should be taught cross curricula rather than discreet ICT lessons.				
Word Processing	Children to type their names and become familiar with the keyboard and mouse. Skills: To recognise and use the space bar and shift key for capital letters.	2Simple 2Publish Story Jumper to create own story books linked to Literacy Pages (iPad) Skills: To be inserting a picture and adding text. To change the colour of text. To use the delete and enter key.	2 simple moving into Word- download Word template to support children’s learning. Word processing with a purpose. Story Jumper Skills: To delete and insert text To change the size and style of font. To insert and rotate images.	Create Top Trump Cards using Word Skills: To use text boxes to insert text To insert a table To add bold and italics To highlight text To change the alignment of text in relation to a picture. To change the orientation of the page To resize and crop the picture.

E-Safety	N/A	N/A	N/A	N/A
Presenting	2 Simple	PowerPoint Key note (ipad)	PowerPoint linked to topic work Keynote (iPad) 2 Simple (?)	PowerPoint linked to topic work inserting picture and animations- Knowsley (pg 103) Keynote (iPad)
E-Safety	N/A	N/A	N/A	N/A
Data Handling/Spread sheets	2 Simple graphing Top Marks- Children to make Pictograms	Excel- Have a magazine/catalogue and input different prices in to the cells . Think of a purpose for doing this? 2 Simple Graphing (?) Number (ipad) My World	Excel - Times tables (?) - Input data to create a bar graph (bar graph only!) Whatever the Weather- Knowsley lesson plans http://www.topmarks.co.uk/maths-games/5-7-years/data-handling 2 Graph My World Various websites Number (iPads)	Excel or Number (iPads) - Link to science and Maths. Use to interpret information.
E-Safety	N/A	N/A	N/A	N/A
Multimedia- Audio/video	Puppet Pals- Children to create their own animation Skills: •to interact with buttons and pictures to create musical sounds and phrases • to use volume controls • to take a picture using a digital camera and import it onto the computer • to change the settings on a digital camera to improve a shot • take digital photographs, evaluate them in the camera, and re-take if necessary	Use of digital camera to produce a storyboard. (Use of iPads to capture pictures. Focus on: capturing an image so particular object is central, ensuring it's focused not blurred).	Audacity to record- children to learn how to record and how to cut it. (pg 33- 37 Martin Burrett) Children to take a video (iPads) using Movie Maker or iMovie. Fit images, videos together to produce a movie. Could add sounds using the bank of sounds available. Photostory 3 – telling a story with pictures. Stop Animation- Knowsley- Mythical Creatures.	Movie Maker Look at silent movies and how music is used to create suspense. Capture a picture. children to add music/sound to it. OR Use of Photospeak APP to present an animation that campaigns for something (topic linked).

E-Safety		Discuss use of photographs with children, many parent, siblings post pictures online. Discuss who can see these.	Even if video footage is used only within the school, parental consent should be sought. Brief the children and parents in advance. With the consent of the children and parents, some of the edited video might be made available on the school website or external sites. Keep to school policy. Never include any information in the videos that might identify children.	Even if photo/video footage is used only within the school, parental consent should be sought. Brief the children and parents in advance. With the consent of the children and parents, some of the edited video might be made available on the school website or external sites. Keep to school policy. Never include any information in the videos that might identify children. Copyright Use of appropriate language and be respectful of others and their views and opinions.
Graphics	My Favourite things- Children to use a paint program to draw favourite foods, toys, friends. Mouse Skills Skills: •to use simple mark making tools in a painting package • to select appropriate brush colours and textures from the colour palette to use in their work • to use the flood fill tool to colour in a picture in a painting package • to print out their painting	Paint or Brushes (iPad) Skills: • to change the size of brush head • to select and use the straight line and flood fill tools • to change the brush head style • to select and use different geometric shapes • to create a repeating symmetrical pattern • to select and use different techniques to communicate ideas through pictures	Paint- Using shapes, fill, lines and a variety of other tools.	Drawing 3D shapes using word. Challenge children to create a net for a square/rectangle. Children to use shape function in word.
E-Safety	N/A	N/A	N/A	N/A

Communication	Interviewing each other using microphones.	How can you use the Internet? http://www.bbc.co.uk/guides/zgqfyrd Web Searches To use the Internet to carry out searches based on a topic developing web skills.	Class Email (?) As a class send an email to an author, museum...	Know that email is a method of sending and receiving messages through the Internet. Emailing within the classroom. Children to send emails using Office 365 (technician to set up so it is only used within school) . A nice introduction to email. Ch can send messages to each other and to teacher only. Send and retrieve
E Safety	Discuss use of photographs with children, many parent, siblings post pictures online. Discuss who can see these.	Pupils and students understand that they should stay safe online by choosing websites that are good for them to visit, and avoid sites that are not appropriate for them. How can you use the web safely- http://www.bbc.co.uk/guides/zym3b9q	Lots of talk on the importance of only emailing/talking to people they know. Opening up unknown emails.	Discuss how we should only open emails from people we know. Look at how to delete emails from people we don't know. Discuss only emailing people we know.
IT Around Us	What is a Computer?- http://www.bbc.co.uk/guides/zc4x6sg How can computers help you learn? http://www.bbc.co.uk/guides/zxbwjxs	To look at how the web works and how we are all connected and contactable via access to the internet We Are All Connected (Knowlsey).	How technology has advanced over the years. (Knowlsey: Young Author)	How Email Works- http://www.bbc.co.uk/education/clips/zwp3r824
		E Safety- Awareness Raising Introducing on line life- What it is? The dangers.	The pros and cons of technology and how it is changing lifestyles.	E Safety (see above).

	Year 4	Year 5	Year 6
E Safety covered in Year Groups and through discreet lessons.	Cyber bullying and reporting abuse Netquette Copy Right Gaming and its risks Spam Passwords and Security	Cyber Bulling and Reporting Abuse Friend or Foe? Trolls Copy Right Online Gaming and its risks	Social networking, Sexting, Images and Grooming Cyber Bullying Copy Right Gaming and Collaboration Hacking and Viruses/Malware- http://www.bbc.co.uk/education/clips/2wk26sg
Coding	Scratch – Animating a Story Kodu or Minecraft- World creation linked to Anglo Saxons (Knowsley pg 122). Introduce how to write an algorithm using flowchart method .	Scratch- Creating a Maze Game Introducing Variation- Scoring points and Adding a Timer. Kodu- Game Creation Skills	Scratch – Pong Style Game Break out Kodu Cup Challenge- Possible Project around Healthy Eating
	WeDo- Linked to Science: Focused task- Water System Preventing Floods and/or Flood Gates	WeDo- Linked to Science: Focused task- Forces Levers, pulleys and Gears Space Life Cycles (Plants and Pollination).	MindStorm- Children to program MindStorm in a variety of ways; problem solving and participating in a variety of competitions.
E-Safety	Discuss how games like Minecraft can become dangerous. They may have the ability to talk to others. This can lead to cyber bullying or talking to strangers who may not be children. There is also the dangers of viruses and malware. Therefore, it is important parents download it and that they use and set the correct parental control.	N/A	N/A

Digit Learning- This in the main should be taught cross curricula rather than discreet ICT lessons.

Word Processing	<p>Sway (if possible)- Inserting photos, pictures, text. Changing colour and style of text. OR Fact Sheets linked to topic work. Word Skills-</p> <ul style="list-style-type: none"> • to create a bulleted list • to use cut and paste or drag and drop to reorder a piece of text • to delete, insert and replace text to improve clarity and create mood • to use a thesaurus to find synonyms of words • to use a spelling and grammar checker • to use: editing, formatting and presentation techniques to organise and communicate information effectively for a given purpose in a document or presentation 	<p>To use WORD to produce either a: News Report/Newsletter/Brochure using Page or Word linked to WWII project.</p> <p>Children to use all the tools they have learnt so far.</p>	<p>To use Word for editing purposes- writing formal letters/letter of complaint; CV; Persuasive letter for LWS.</p> <p>Children to produce an ebook using a Variety of computing skills- Knowsley Young Authors</p>
E-Safety	Discuss the use of photographs and information that they will put into their presentation. What information is safe? Who should we share these with?	Plagiarising and Copy Right issues.	
Presenting	<p>Smart Notebook- Children to build their own presentations. Teacher lesson take over. Children need to decide what they will teach and produce presentation to do so. To add hyperlinks.</p> <p>iPads- Adobe Slate</p>	<p>Introduction to Prezi – How to produce a presentation- cross curriculum.</p> <p>Skills- pictures, texts, hyperlinks, video. Ensure Prezi id disabled so can only be used within school! Speak to technician.</p>	<p>Use of Prezi or PowerPoint to produce a presentation on topic or even House Captain election (?) Keynote App (iPads)</p> <p>Formal presentation skills- Ensure Prezi id disabled so can only be used within school! Speak to technician.</p>
E-Safety	Discuss the use of photographs and information that they will put into their presentation. What information is safe? Who should we share these with?	Discuss the use of photographs and information that they will put into their presentation. What information is safe? Who should we share these with? Is it kind or hurtful?	Discuss the use of photographs and information that they will put into their presentation. What information is safe? Who should we share these with? Is it kind or hurtful?

<p>Data Handling/Spread sheets</p>	<p>Use of Excel to record data linked to topic on Chocolate. Children to produce report.</p> <p>Also</p> <p>Give the children a recipe. They are to use shopping sites to find the cheapest products. Are there any deals?</p> <p>Skills-</p> <p>Auto sum</p> <p>Drag</p> <p>Formula</p> <p>sum</p>	<p>Excel:</p> <p>to construct a flat file database with different types of fields</p> <p>to add records to a database</p> <p>to use a database to sort and classify information and to present the findings</p> <p>to discuss which type of graph works best for different kinds of data</p> <p>to create: bar charts and pie charts of data</p> <p>to interpret and analyse information in graphs</p> <p>Similar to year 4:</p> <p>Children have to kit out their own room (linked to the one they have created in the Graphic section) with furniture. Children to research prices to find the best costing.</p>	<p>Stocks and Shares- Use of Excel (Knowsley) to search a database using =< and =></p> <p>to search a database using 'OR'</p> <p>to search a database using 'AND'</p> <p>OR</p> <p>Children to produce line graphs.</p>
<p>E-Safety</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>Multimedia-Audio/video</p>	<p>QR Coding and voice recording using Vocaroo to produce audio book.</p> <p>iMovies using iPads- Hurray For Hollywood (Knowsley)</p> <p>To create short films, editing lighting and sound. <i>Could produce a news report during topic on the Vikings/process of chocolate project. Use Green Screen from iMovie to add own news studio background.</i></p> <p>OR</p> <p>Produce a Video and presentation about Obesity and why exercise is so important. (Knowsley We've Got the Power). You can relate this to other curriculum areas .</p>	<p>iMovies using iPads</p> <p>To create short films, editing lighting and sound.</p> <p>Green Screen- linked to news report on topic. Children to film a news broadcast in front of green screen.</p> <p>Augmented Reality- Interactive Art Exhibition (Knowsley)</p> <p>Garageband to create own music</p>	<p>Stop Animation</p> <p>Children to produce their own Apps and to market these using imovies. (Knowsley -Appy Times Part 1 and 2).</p> <p>Garageband to create own music.</p> <p>Green Screen- linked to news report on topic. Children to film a news broadcast in front of green screen.</p>

E-Safety	Even if video footage is used only within the school, parental consent should be sought. Brief the children and parents in advance. With the consent of the children and parents, some of the edited video might be made available on the school website or external sites. Keep to school policy. Never include any information in the videos that might identify children.	Discuss issues of copyright and downloading materials e.g. mp3, images, videos etc and how they should always reference sources when using other people's work in their own work. Understand the uses of copyright and how they apply to their own work.	Discuss issues of copyright and downloading materials e.g. mp3, images, videos etc and how they should always reference sources when using other people's work in their own work. Understand the uses of copyright and how they apply to their own work.
Graphics	Children to use paint to produce their own packaging for their chocolate bar. Tablet drawing (Sketchies iPad) to make observational drawings.	Grand Designs (Knowsley) Use of Sketch Up to produce a 3D World and a 2D room (linked to Excel and costing activity).	Designing their own App or Wearable Technology
E-Safety	N/A	N/A	N/A
Communication	Use of Email- attaching a document . Opening documents and downloading attachments.	N/A	N/A
	Discuss with children the fact that when we are online we cannot see if what we are doing or saying is making the other person, happy or sad so they must be nice to people as you would in the real world. Try to make children aware that there is no difference between the online world and the offline world – there is only one way to behave. Discuss opening documents ensuring they know the source. discuss viruses, phishing (fishing), the problem with adverts). Change your password regularly and keep it in a safe place. Don't share your password with anyone.		

	<p>Don't open attachments from anyone you don't know.</p> <p>Log out or sign off from your account when you've finished looking at/sending your email.</p> <p>Don't reply to spam or forward chain emails.</p>		
IT	<p>Technology through the ages-</p> <p>Children to research technology and the changes that have occurred.</p> <p>Changes to technology</p> <p>Inventors of key technologies</p> <p>Components of computers</p> <p>Hardware and Software</p> <p>Future Technologies</p>	<p>How the Internet Works- http://code-it.co.uk/netintsearch</p>	<p>Research using search engines for finding information. What are the returned results? Which are going to be the most useful? Which should we avoid (Ads). Do you trust the sources and what is being said?</p>
E-Safety		<p>Discuss what information children share on the internet and the importance of protecting our personal information online, use the video below to inform this discussion:</p> <p>http://www.bbc.co.uk/learningzone/clips/keeping-your-personal-information-safe-online/5594.html</p>	<p>Discuss what information children share on the internet and the importance of protecting our personal information online, use the video below to inform this discussion:</p> <p>http://www.bbc.co.uk/learningzone/clips/keeping-your-personal-information-safe-online/5594.html</p>