	E-Safety	Multimedia	Programming	Online	Data
Reception	By the end of EYFS children should: Show an interest in ICT Know how to operate simple equipment Complete a simple program on the computer/BeeBot and / or perform simple functions on ICT equipment Find out about and identify the uses of everyday technology and use information and communication toys to support their learning.				
Years 1+2	Make decisions about whether or not statements found on the internet are true or not. Identify devices that can be used to search the Internet. Identify what things count as personal information. Identify when inappropriate content is accessed and act appropriately. Recognise that a variety of devices can be used to connect a number of people. Consider other people's feelings on the Internet.	Graphics Use ICT to generate ideas for their work. Use various tools such as brushes, pens, rubber, stamps, shapes. Save, retrieve and print work. Text Use spacebar, backspace, delete, arrow keys, return. Start to use two hands when typing. Word process short texts to present. Sound recording Record sound at and away from a computer. Use software to record sounds. Change sounds recorded. Save, retrieve and edit sounds. Video Capture video. Discuss which videos to keep and which to delete. Arrange clips to create a short film. Add a title and credits. Presentation Choose a suitable subject and collect some information. Create a mindmap of this data. Link appropriate bubbles. Present	Bee-bots Give commands including straight forwards / backwards / turn one at a time. Explore what happens when a sequence of instructions is given. Give a set of simple instructions to follow out a task. Give a set of instructions to form simple geometric shapes. Improve/change their sequence of commands	Internet research Talk about websites they have been on. Explore a website by clicking on the arrows, menus and hyperlinks. Emails Recognise an email address. Find the @ key on the keyboard. Contribute to a class email. Open and select to reply to an email as a class.	Know that images give information. Say what a pictogram is showing them. Put data into a program. Sort objects and pictures into lists or simple tables. Make a simple Y/N tree diagram to sort information. Create and search a branching database.

		the information to a group.			
Years 3+4	Question the 'validity' of what they see on the internet. Use a browser address bar not just search box and shortcuts. Think before sending and comment on consequences of sending/posting. Recognise online behaviours that would be unfair. Recognise social networking sites and social networking features built into other things (such as online games and handheld games consoles) Make judgments in order to stay safe, whilst communicating with others online. Tell an adult if anything worries them online. Identify dangers when presented with scenarios, social networking profiles etc. Articulate examples of good and bad behaviour online.	**Graphics** Acquire, store and combine images from cameras or the internet for a purpose. Use the print screen function to capture an image. Select certain areas of an image and resize, rotate and invert the image. Edit pictures using a range of tools in a graphics program. **Text** Create a new book aimed at a target audience. Combine text, images and sound on each page. Add information about the author and title for publishing. **Animation** Plan what they would like to happen in their animation. Take a series of pictures to form an animation. Move items within their animation to create movement on playback. Edit and improve their animation. **Video** Capture video for a purpose. Choose which clips to keep and which to discard. Trim and arrange clips to convey meaning. Add titles, credits, slide transitions, special effects. Text Get quicker at typing with both hands. Use a variety of font sizes, styles and colours. Align text left, right and centre. **Presentation** Create a title slide and choose a	**Scratch** Navigate the Scratch programming environment. Create a background and a sprite for a game. Add inputs to control their sprite. Use conditional statements within the program to control the sprite (if...then..)	**School website/Blogging** Navigate to view their class blog. Understand that it can be updated from a range of devices. Collaborate as a class to develop a class Blog on the school's website. **Internet research** Type in a URL to find a website. Add websites to a favourites list. Use a search engine to find a range of media, e.g. images, texts Think of search terms to use linked with questions they wish to answer. Talk about the reliability of information on the Internet, e.g. the difference between fact and opinion. **Emails** Log into an email account, open, create and send an email. Attach files to an email. Download and save files from an email. Email more than one person and reply to all.	Choose information to put into a data table. Recognise which information is suitable for their topic. Design a questionnaire to collect information. Sort and organize information to use in other ways. Create and search a branching database. Create a database from information I have selected.

		style. Change the layout of a slide. Insert a picture/text/graph from the Internet or personal files. Decide upon and use effective transitions.			
Years 5+6	Judge what sort of privacy settings might be relevant to reducing different risks. Judge when and when not to answer a question online. Be a good online citizen and friend. Articulate what constitutes good behaviour online. Use different sources to double check information found online. Find 'report' and 'flag' buttons in commonly used sites and name sources of help (childline, cybermentors etc) Click-CEOP button and explain to parents what it is for. Discuss scenarios involving online risk. State the source of information found on the Internet. Act as a role model for younger pupils	**Sound Recording** Collect audio from a variety of resources including own recordings and internet clips. Create a multi-track recording using effects. Edit and refine their work to improve outcomes. **Animation** Plan a multi-scene animation including characters, scenes, camera angles and special effects. Use stop –go animation software (Ican Animate / Hue animation) with an external camera to shoot animation frames. Adjust the number of photographs taken and the playback rate to improve the quality of the animation. Publish their animation and use a movie editing package to edit/refine and add titles. **Video** Storyboard and capture videos for a purpose. Plan for the use of special effects and transitions. Trim, arrange and edit audio levels to improve quality of their outcome. Export their video. **Presentation** Work independently to create a multi slide presentation that includes speakers notes.	**Scratch** Use external triggers and infinite loops to control sprites. Create and edit variables. Use conditional statements. Design their own game including sprites, backgrounds, scoring and/or timers. Use conditional statements, loops, variables and broadcast messages in the game. The game finishes when a player wins or loses and they must know they have won or lost. Evaluate the effectiveness of the game and debug as required.	**Internet Research** Use advance search functions in Google (quotations). Understand websites such as Wikipedia are made by users (link to E-Safety). Use strategies to check the reliability of information (cross check with another source such as books). Use their knowledge of domain names to aid their judgment of the validity of websites. **Cloud Computing** Understand files may be saved off their device in 'clouds'. Upload/download a file to the cloud on different devices. Understand about syncing files using cloud computing folders. **School website/Blogging** Develop the class page on the school's website to include multimedia. Ensure a clear design is decided upon and adhered to. Develop writing for an online audience by sharing content with the village's newsletter. Embed photos, hyperlinks and videos into posts. Reorganise posts and remove posts they no longer want.	Create data collection forms and enter data accurately from these. Know how to check for and spot inaccurate data. Know which formulas to use when I want to change my spreadsheet model. Make graphs from the calculations on my spreadsheet. Sort and filter information. Understand that changing the numerical data effects a calculation.

		Use transitions and animations to improve the quality of the presentation. Include sounds and moving graphics in the slides. Present to a large group or class using the notes made.			