Leamington Community Primary School
Progression of Skills - Computing

Early Learning Goals:
Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.

Birth – 20 months	16 - 24 months	22 – 36 months	30 – 50 months	40 – 60+ months	
Playing and Exploring and Creating and Thinking Critically	Anticipates repeated sounds, sights and actions, e.g. when an adult demonstrates an action toy several times. Shows interest in toys with buttons, flaps and simple mechanisms and beginning to learn to operate them.	Seeks to acquire basic skills in turning on and operating some ICT equipment. Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car.	Knows how to operate simple equipment e.g. turns on CD player and uses remote control. Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. •Knows that information can be retrieved from computers	Completes a simple program on a computer. Uses ICT hardware to interact with age-appropriate computer software.	

==Digital Literacy has been noted as an area of weakness in school. Highlighted in yellow are areas that you could improve this through different topics.==

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Coding, Robotics and Gaming	I can give and carry out instructions (algorithm) with a friend. I can use On/Off switches and control buttons. I can show you how to remote-control a toy. I can use Fwd, Bk, Go, on/off to control a robot. I can predict and test simple instructions.	I can link 'Forward', and 'Backward' commands with standard 90 deg (right Angle) turns. I can make up a sequence of instructions. I can predict and test results of a sequence of instructions. I understand what algorithms are. I can use commands to animate a sprite. I can add speech to a sprite.	I can make up a sequence (Algorithm) of instructions. I can predict and test results of a sequence of instructions. I know how a conditional event works in a simple program I can use conditional events to control a Sprite (character) in a program	I can use functions to control the movement of sprites I know how to code my program to respond to user input from the keyboard. I can think in a logical way to make my program work effectively I can debug a sequence to correct errors. I understand the function of the coding blocks within the algorithm.	I can use functions to control the movement of sprites I know how to code my program to respond to user input from the keyboard. I can think in a logical way to make my program work effectively I understand the function of the coding blocks within the algorithm. I can debug a sequence to correct errors to achieve a specific goal.	I can plan a short text-based or Graphic Game I can use textures and tools to create different landscape terrain I can program the objects to interact with each other. I can Debug (modify) my program as a result of testing. I can test program functionality to assess whether it is 'fit for purpose'

Collecting, exploring and recording data	I can find Image Data using Keyword Searches I can sort objects and pictures by given Criteria. I can collect data using a Tally Chart I can put Tally Chart data into a program. I can say what Information my pictogram shows.	I can recognise the Data I need to collect I can record the Data on a simple form I can Enter Data into a Chart program I can Save the Chart I can simply explain what the Chart information shows. I can recognise common uses of IT beyond school.	I can choose information to put into a data table. I can recognise which information is suitable for my topic. I can design a questionnaire to collect information. I can sort and organise information to use in other ways.	I know how to check information is accurate. I can design a questionnaire to collect information I can insert a table I can sort and organise information to use in other ways. I can create a database from information I have selected. I can make a chart from table of data.	I can use an online data collection form and enter data accurately. I know how to check for and spot inaccurate data. I know which formulas to use to calculate number information I can make graphs from the data. I can select information to support a point of view. I can sort and filter information	I know how to check for and spot inaccurate data. I know how an Infographic can present information I can make a simple Infographic from information I have collected. I can make my presentation / project fit the demands of the audience.
Create and share digital artefacts	I can recognise an appropriate image for sharing online. I can open an app to add text & image I can use import export & save icons properly. I can upload my work to the class page.	I can choose draw tools to create a scene. I can use the fill, shape and text tools in my drawing. I can use tools to alter the contrast and brightness I can find images and add them to a Collage. I can save my work as it progresses. I can say how my image changes when I add effects.	I can create suitable simple scripts for a podcast. I can connect microphones and use applications to record and play sounds. I can record sound using a digital recorder. I can upload sound files to the web. I understand what an input (keyboard, mouse etc.) and output (screen, speakers) are.	I can use Stop Motion animation app I know how to edit my video file in an editor. I can add still images / media to the video file in the editor. I can save my file as a movie file I can add titles, credits and text to a simple movie file.	I know which kind of App or Program I need to use. I can organise my files into folders I can import and export file to the desired type. I know how to add sound to my book I can prepare media in different apps or programs.	I can create a script using dialogue via word processing publication. I can create a multi-track recording I am able to edit sound files I know how to Duck tracks I am able to create and share files for use on Digital media devices.
Digital Communications and the web	I can make up a username I can create an Avatar I know not to give my own name or age over the internet. I know who to ask for help if I need it. I know to be polite when talking online.	I can upload digital content to a website I can ask simple keyword questions to search a website. I can report unpleasant web content I know how to make up a username & Profile I can enter a URL (web	I know how to report unpleasant web content. I know how to connect with others safely online. I am aware of which information I should keep private I know how to respond (or not) to online communications.	I am aware of how to check website authenticity. I know which personal information I should use online. I can create and publish information using a web-based editor. I can recognise	I know how to use a social networking tool appropriately. I know which personal information I should use online. I can comment and interact with peers appropriately in online communications.	I know how to behave appropriately as part of an online community I can create and optimise images for a mobile app. I can choose appropriate app elements and change their properties

		address) into the address bar. I can keep personal information private.	I know how to report unpleasant web communications. I can insert a text box I can format font with alignment, bold and colour. I can use bullet points.	acceptable and unacceptable behaviours	I can create, upload and amend digital content for online publication. I can limit / block other online users from viewing my profile data.	I am able to layout content on app pages and create links
Problem solving and real world tech	I can find my way around a computer game. I can choose and use appropriate tools for my picture. I can predict what might happen in a simulation game.	I can link 'forward' and 'backward' commands with standard 90 degree (right-angle) turns I can make up a sequence of instructions I can predict and test results of a sequence of instructions. I can use programs to achieve goals.	I can predict what might happen from making choices in a simulation. I can explore and record the possible outcomes in a simulation. I can create a 3D virtual model from an image of the real thing. I can make comparisons/inferences about the real world from simulations.	I can use basic shapes in a CAD program I can create a design in 2D for a real purpose. I know how to construct a 3D model from a 2D design. I can Save and Export my work	I can create a 3D model of a real object. I can use accurate measurements to recreate the model I know how to create separate elements of a 3D model for each of its surfaces	I am able to select and use the appropriate vocabulary to match target audience and content. I can use appropriate Graphic tools to optimise images. I know how to layout navigation on web pages. I can create hyperlinks to another page in my document and to other websites.
Produce, edit and publish media	I can choose, save and retrieve image/s relevant to purpose I can type events in order. I can use a drawing app to create a simple drawing I can export a file from an app and import into another app. I can combine text and graphics.	I can find images and save them. I can edit an image in a simple image editing software. I can add text to my document. I can save my final document. I can save images from the Internet into a folder on the PC.	I can plan simple short scripts for narration (Word Processed or MS PowerPoint) I can record simple audio on a movie timeline I can place images on timeline and adjust for playback I can add transitions, titles and credits to my movie. I can export as a video file for computer.	I can combine text and images to create a news article. I can use consistent layout in my publication. I can use picture properties to edit & add effects I can sequence images and add sound in a video editor.	I can draft my documentary script using word processing skills I can plan & sequence content in a document. I know how to lay out my document to suit its purpose. I can change images to enhance the effect. I am can select vocabulary to match audience and content. I can combine text and image effectively to contribute to a Document.	I can create hyperlinks to another page in my document and to other websites. I am able to select and use the appropriate vocabulary to match target audience and content. I can use appropriate Graphic tools to optimise images. I know how to layout navigation on web pages.

Logical thinking			Where relevant	Where relevant	Where relevant	Where relevant
			I can understand computer networks such as the internet I understand how networks provide multiple services such as the WWW.	I can understand computer networks such as the internet I understand how networks provide multiple services such as the WWW.	I can understand computer networks such as the internet I understand how networks provide multiple services such as the WWW.	I can understand computer networks such as the internet I understand how networks provide multiple services such as the WWW.