Thames View Primary School - Computing Progression Map 2020-2021

	Digital Literacy	Computer Science	Information Technology
Early Years	Understand how to ask for help when using technology.	Understand and follow simple instructions.	Use ipad/tablets to access age appropriate software.
KS1 –Y1	Use technology safely. Keep personal information private. Recognise common uses of information technology beyond school. Login using school username and password. Word process ideas using a keyboard. Use the spacebar, back space, enter, shift and arrow keys. Print a page.	Understand what algorithms are. Create a simple series of instructions Understand forwards, backwards, up and down. Put two instructions together to control a programmable toy. Begin to plan and test Bee-Bot journey.	Use technology purposefully to create digital content. Use technology purposefully to store digital content. Use technology purposefully to retrieve digital content. Use camera/ipad/tablet to capture images.
KS1 – Y2	Use technology respectfully. Identify where to go for help and support when they have concerns about content or contact the internet or other online technologies. Word process a piece of text. Insert/delete a word using the mouse and arrow keys. Highlight text to change its format.	Understand that algorithms are implemented as programs on digital devices. Understand that programs execute by following precise and unambiguous instructions. Debug simple programs. Use logical reasoning to predict the behaviour of simple programs. Use right angle turns. Use repeat commands.	Use technology purposefully to organise digital content. Use technology purposefully to manipulate digital content. Use websites to find information. Click links in websites. Print a web page to use as a resource. Use text, pictures and animation to make a simple slide show.

KS2 - Y3	Use technology responsibly. Identify a range of ways to report concerns about contact. Create a presentation moving from slide to slide for specific audience. Combine text, images and sounds to show awareness of audience. Manipulate text, underline text, centre text, change font and size and save text to a folder.	Write programs that accomplish specific goals. Use sequence in programs. Work on various forms of input. Work with various forms of output. Use variables to control models. Use 90 degree and 45 degree turns. Draw regular shapes on screen using commands.	Use search technologies effectively. Use a variety of software to accomplish given goals. Design and create content. Present information. Find relevant information by browsing a menu. Search for an image, copy and paste it into a document. Use 'Save picture as' to save an image to the computer. Copy and Paste text into a document Begin to use note making skills to decide what text to copy.
KS2 - Y4	Understand the opportunities computer networks offer for communication. Identify a range of ways to report concerns about contact. Recognise acceptable /unacceptable behaviour. Create a lengthy presentation that moves from slide to slide aimed at specific audience. Insert sound recordings into a multimedia presentation. Use automatic spell checker to edit spellings.	Design programs that accomplish specific goals. Design and create program. Debug programs and accomplish specific goals. Use repetition in programs. Control or simulate physical systems. Use logical reasoning to detect and correct errors in programs. Understand how computer networks can provide multiple services, such as the world wide web. Appreciate how search results are selected. Use repeat instructions to draw regular shapes on screen. Experiment with variables to control models. Make turns specifying the degrees. Give an on-screen robot specific directional instructions that them from x to y.	Select a variety of software to accomplish given goals. Select, use and combine internet services. Analyse/Evaluate information. Collect and present data. Use a search engine to find a specific website. Use note-taking skills to decide which text to copy and paste into a document. Use tabbed browsing to open two or more web pages at the same time. Open a link to a new window. Open a document (pdf) and view it. Input data into a prepared database. Sort and search a database to answer a simple question. Use the terms cells, rows and columns. Enter data, highlight it and make bar charts.

KS2 - Y5	Understand the opportunities computer networks offer for collaboration.	Solve problems by decomposing them into smaller parts.	Select a variety of software to accomplish given goals.
	Be discerning in evaluating digital content.	Use selection in programs.	Select, use and combine software on a range of digital devices..
	Use the word count tool to check the length of a document.	Work with variables.	Analyse/Evaluate data.
	Use bullet and numbering tools.	Use logical reasoning to explain how some simple algorithms work.	Use a search engine using keyword searches.
		Use logical reasoning to detect and correct errors in algorithms.	Compare the results of different searches.
		Understand computer networks including the internet.	Decide which sections are appropriate to copy and paste from a least two web pages.
		Appreciate how search results are ranked.	Save stored information.
		Write programs using sequences and repetitions.	Download a document and save it to the computer.
			Prepare and present a simple film.
			Use ICT to record sounds and capture both still and video images.
KS2 - Y6	Understand the potential risk of providing personal information online.	Explain how an algorithm works.	Select a variety of software to accomplish given goals.
	Discuss the positive and negative impacts of the use of ICT.	Detect errors in a program and correct them.	Select, use and combine software on a range of digital devices..
	Recognise why people may publish content that is not accurate and understand the need to be critical evaluators of content.	Use an ICT program to control a number of events for an external device.	Analyse/Evaluate data.
	Understand that some websites and/or pop-ups have commercial interests that may affect the way the information is presented.	Explore 'What if' questions by planning different scenarios for controlled devices.	Collect live data using logging equipment.
	Recognise the potential risks of using internet communication tools and understand how to minimise those risks (including scams/phishing).	Use ICT to measure sound, light or temperature using sensors and interpret the data.	Identify data error, patters and sequences.
	Understand that some material on the internet is copyrighted and may not be copied or downloaded.		Use the formulae bar to explore mathematical scenarios.
	Confidently choose the correct page set up option when creating a document.		Create their own database and present information from it.
	Confidently use text formatting tools, including heading and body text.		Use complex searches using such '+' 'OR' "find the phrase in inverted commas".
	Use 'hanging indent' tool to help format where appropriate (e.g. a play script).		Create a sophisticated multimedia presentation.