



Year 5/6 Computing Framework



Coverage New Learning Recall of prior learning CH – Computing Hierarchy

Terms	Autumn		Spring		Summer	
Topic	E-Safety / Programming		Communicate / Data		Digital Creativity	
Computing topic	E-Safety	Programming with Scratch	Communicate/ Digital Literacy	Data/Communication	Stop Motion Animation	Photo editing and Video creation
Weeks						
1	<p>Understand how to make you online present private and not give to much information away.</p> <p>Understand about computer security and keeping your information safe and secure Use Q and A to discuss experiences of using the internet and how many have a 'YouTube' channel or other social media channels.</p>	<p>Explain how the interface works in Scratch, Understand what the tools are and how they work. Explain the stage, the script options and the coding. Pupils will understand each area or the interface and understand how to create a simple program. <i>Design and write a program that accomplishes a specific goal.</i></p>	<p>Presenting data and information</p> <p>Understand how to create folders and how to name files correctly. Understand which apps will open certain files. Use technology effectively and appreciate how results and selected and ranked. Understand how to save relevant images onto their own area (My Documents) and then how to find them. <i>C18; Choose the most suitable applications and devices for the purposes of communication.</i></p>	<p>Understand the basics of computer networks including the internet; Pupils will be able to understand the difference between the World Wide Web and the Internet. <i>C17; Understand how simple networks are set up and used.</i></p>	<p>Understand what stop motion animation is. Understand how Stop Motion App interface works.</p> <p>Current theme in the Curriculum forces and magnets/Pharaohs Understand how to create resources within stop motion animation.</p>	<p>Understand how to share a movie trailer.</p> <p>Simple photo editing using tools in MS Word. Understand how to use a range of tools in Microsoft apps <i>C2; Change the position of objects between screen layers (send to back, bring to front etc)</i></p>
2	<p>Google Activity Tower of Treasure: Secure your Secrets <i>This will help to develop skills regarding online security.</i> Understand that not everyone online is who they say they are. <i>C27; Understand online risks and the age rules for sites.</i></p>	<p>Design and write a program that accomplishes a specific goal. Design and write a program, including controlling or simulation physical systems <i>C1; Set 'If' statement for conditions for movements. Specify types of rotation giving the number of degrees</i></p>	<p>Project about Technology Create a document about Technology using a range of tools using Microsoft Word. Understand how to use a range of tools in all Microsoft Applications Be able to transfer skills across different platforms. Understand how to find relevant images about a given topic. <i>C19; Use many of the advanced features in order to create high quality, professional or efficient communications.</i></p>	<p>This may take more than 1 lesson.</p> <p>Understand the basics of computer networks including the internet; Understand how data travels around the internet.</p> <p>Understand how simple networks are set up and used. Understand the basics of computer networks including the internet. Understand what viruses are and how they are spread. Understand IT security and the terminology of how IT systems can be made secure</p>	<p>This could be an afternoon session to create an Animation movie.</p> <p>Understand how to create resources for Stop Motion</p> <p><i>C18; Use some advanced features of application and devices in order to communicate ideas, work or messages professionally.</i></p> <p>Understand how to create an animation using the resources and the app from the last session.</p>	<p>Understand how to plan a movie creation.</p> <p>Understand the tools and interface i <i>C18; Choose the most suitable applications and devices for the purposes of communication. The pupils need to be able to select the correct application to present information.</i> <i>C19; Use many of the advanced features in order to create high quality, professional or efficient communications. n iMovie</i></p>
3	<p>Google Activity Continued. The Tower is Unlocked' <i>C27; Understand online risks and the age rules for sites.</i> Understand security terminology; -Two Step Authentication, -Passwords Passcodes -Encryption -Hacking, -Blue Jacking</p>	<p>Design and write programs that accomplish specific goals, including controlling or simulating physical systems, solve problems by decomposing them into smaller parts. <i>C6; Use 'IF THEN ELSE' conditions to control events or objects.</i></p>	<p>Project about Technology Create a document about Technology using a range of tools using Microsoft Publisher. Understand how to use a range of tools in all Microsoft Applications Be able to transfer skills across different platforms. Understand how to find relevant images about a given topic. <i>C20; Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.</i></p>	<p><i>C16; Understand how online services work.</i> <i>C17; Understand how simple networks are set up and used.</i> <i>Understand the basics of computer networks including the internet.</i> <i>Understand what viruses are and how they are spread.</i></p>	<p><i>C18; Use some advanced features of application and devices in order to communicate ideas, work or messages professionally.</i> <i>C28; Use a range of applications and devices in order to communicate ideas, work and messages.</i> <i>C19 Use many of the advanced features in order to create high quality, professional or official communications.</i></p>	<p>Understand how to create a simple movie in preparation for a project new week</p> <p>Understand how to take small pieces of video and store them <i>C18; Choose the most suitable applications and devices for the purposes of communication. The pupils need to be able to select the correct application to present information.</i> <i>C19; Use many of the advanced features in order to create high quality, professional or efficient communications. n iMovie</i></p>
4	<p>Understand online profiles and what they can show. Respect others and understand how others see you and you see them. <i>C15 Understand that comments made online that are hurtful or offensive are the same as bullying</i> <i>C10; Use reporting operators</i> <i>C11; Pick random features, this is also linked to Excel.</i></p>	<p>Use sequence, select and repetition in programs; work with variables and various forms of input and output. <i>C7; Use a range of sensing tools.</i> <i>C8; Use a list to create a set of variables.</i> <i>C9; Use Boolean operators.</i> <i>C10; Use reporting operators</i> <i>C11; Pick random features, this is also linked to Excel.</i></p>	<p>Project about Technology Create a document about Technology using a range of tools using Microsoft PowerPoint. Understand how to use a range of tools in all Microsoft Applications Be able to transfer skills across different platforms. Understand how to find relevant images about a given topic. Understand how to use a range of tools in all Microsoft Applications Be able to transfer skills across different platforms. Understand how to find relevant images about a given topic. <i>C3; Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation.</i> <i>C4; Combine the use of pens with movements to create interesting effects.</i></p>	<p>Understand what "The cloud" is and how it works, on a basic level. Contribute to an existing blog and understand that comments could be kept for ever. <i>C13; Give examples of the risks posed by online communication.</i> <i>C15; Understand that comments made online that are hurtful or offensive are the same as bullying.</i> <i>C16; Understand how online services work.</i> <i>C17; Understand how simple networks are set up and used.</i></p>		<p>Understand how to insert video into iMovie</p> <p>Understand how to insert video into iMovie <i>C18; Choose the most suitable applications and devices for the purposes of communication. The pupils need to be able to select the correct application to present information.</i> <i>C19; Use many of the advanced features in order to create high quality, professional or efficient communications. n iMovie</i></p>
5	<p>Understand how to make you online profiles private and not give too much private information away. <i>C17; Understand that some of the advanced features of applications and devices in order to communicate ideas.</i></p>	<p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. <i>C7; Use a range of sensing tools.</i> <i>C8; Use a list to create a set of variables.</i> <i>C9; Use Boolean operators.</i> <i>C10; Use reporting operators</i> <i>C11; Pick random features, this is also linked to Excel.</i></p>	<p>Create a simple spreadsheet and insert data, formula and a chart. Understand how to present a range of different ideas and choose the most appropriate layout and tools to do it. Presenting data and information <i>C9; Use Boolean operators.</i> <i>C10; Use reporting operators</i> <i>C11; Pick random features, this is also linked to Excel</i></p>	<p>Looking at existing technology in the work and the big names and how they started. Understand mobile technology; Look at mobile technology on a basic level. Look at current technology, mobile network, 5G GPS, Gaming, laptops, email communication. <i>C16; Understand how online services work.</i> <i>C17; Understand how simple networks are set up and used.</i></p>		<p>Understand how to add text in the storyboard that is appropriate to the video</p> <p>Understand how to add text in the storyboard that is appropriate to the video</p>
6	<p>Understand/recap the terminology using the Google stay Safe activities. <i>C17; Understand that some of the advanced features of applications and devices in order to communicate ideas.</i></p>					<p>Understand how to share a movie trailer. Understand how to share a movie trailer <i>C18; Choose the most suitable applications and devices for the purposes of communication. The pupils need to be able to select the correct application to present information.</i> <i>C19; Use many of the advanced features in order to create high quality, professional or efficient communications. n iMovie</i></p>
Skills check – can children...? This is the aim for the vast majority of the class to achieve this half term to ensure that they are ready to move on to the next piece of learning	<p>CH: Give examples of the risks posed by online communication CH Participate in class social media accounts. CH: Understand online risks and the age rules for sites. (IT) Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (DL) Recognise common use for Information Technology beyond school. (DL) Use technology safely and respectfully, keeping personal information private; Identify where to go for help and support when they have concerns about content of contact on the internet or other online technologies.</p>	<p>CH- Control Motion by specifying the number of steps to travel and, direction and turn. CH. Add text strings, show and hide objects the features of the object. CH Add sounds and control when they are heard CH Specify user inputs (clicks) to control event. CH Specify the nature of events such as a loop. CH: Create conditions for actions (CS) Understand what algorithms are; How they are implemented as programs on digital devices and that programs execute (run) by following precise and un-ambiguous instructions. Create and debug simple programs (create and check them) Use logical reasoning to predict the behaviour of simple programs.</p>	<p>CH Use a range of devices and applications in order to communicate ideas, work and messages. (IT) Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (DL) Recognise common use for Information Technology beyond school. (DL) Use technology safely and respectfully, keeping personal information private; Identify where to go for help and support when they have concerns about content of contact on the internet or other online technologies.</p>	<p>CH Understand computer networks including the Internet; how they can provide multiple services, such as the World Wide Web. Appreciate how search results are selected and ranked. (IT) Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (DL) Recognise common use for Information Technology beyond school.</p>	<p>CH Use a range of devices and applications in order to communicate ideas, work and messages. (IT) Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (DL) Use technology safely and respectfully, keeping personal information private; Identify where to go for help and support when they have concerns about content of contact on the internet or other online technologies.</p>	<p>CH Use a range of devices and applications in order to communicate ideas, work and messages. (IT) Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (DL) Use technology safely and respectfully, keeping personal information private; Identify where to go for help and support when they have concerns about content of contact on the internet or other online technologies.</p>



Terminology check	Online, private, Browser, stay safe, block, two step authentications, passwords, passcodes, encryption, hacking and blue jacking	Control, Algorithms, Basic programming, debug, detect and correct errors.	Communication, Resources, Technology,	Databases, Data and Information,	Stop Motion Animation, clips, frames, apps, themes, titles.	Movie, Sound, edit, frame,
-------------------	--	---	---------------------------------------	----------------------------------	---	----------------------------