

**KFJS**  
**Computing Curriculum Map**

**In each unit children will:** gain knowledge of different computing devices and apps.

**Year 4**

Unit	1	2	3
<b>Key Question</b>	How can I use the internet to find new information?	How can I create a video with any background of my choosing?	How can I use repetition to improve a game I create using Scratch?
<b>Essential understanding</b>	<p>Be able to discuss the reliability of information found on the internet by double checking the information you find on another website.</p> <p>Know how to bookmark or favourite a useful website to return to.</p> <p>Use the undo and redo buttons.</p> <p>Be able to effectively use spell checker.</p> <p>Be able to print their work by selecting the correct printer.</p> <p>Be able to change the format of their text – colour, font, size, underlined etc.</p>	<p>Be able to use video editing apps to present information by importing both photos and videos.</p>	<p>Be able to decompose (break program down into smaller manageable chunks that can be solved separately).</p> <p>Be able to explain that we can use a loop command in a program to repeat instructions.</p> <p>Be able to identify patterns in a sequence.</p> <p>Be able to identify patterns in a sequence, eg 'step 3 times' means the same as 'step, step, step'.</p> <p>Be able to plan a program that includes appropriate loops to produce a given outcome</p>
<b>Esafety objectives</b>	<p>Talk about the ways to protect self and friends from harm online.</p> <p>Use the safety features of websites as well as reporting concerns to an adult.</p> <p>Remind children of SMART crew and the smart rules for staying safe online. Use iPads in pairs to record a safety message for other children about how to stay safe online.</p>	<p>Comment positively and respectfully online.</p> <p>Discuss what is appropriate to post online or to send to a friend. Show a picture of a boy and a girl together at the park. If this was their friend and they saw the picture online or their friend sent them it – what would be a good positive comment they could post online?</p>	<p>Talk about why it is necessary to ask a trusted adult before downloading files and games from the Internet.</p> <p>Role-play activity – you have come across a game online that you want to download. When you download it, your computer stops working. Act this out then 'rewind' and act out the scenario again but this time asking for an adults help before downloading it. The adult will then help them find a safe way to download it so that the computer won't come to any harm.</p>
<b>Computer science and digital literacy</b>	<p>Save and retrieve work on the Internet, the school network or own device.</p>	<p>Save and retrieve work on the Internet, the school network or own device.</p>	<p>Use a variety of tools to create a program.</p> <p>Know the need to keep testing a program while putting it together.</p> <p>Recognise an error in a program and debug it.</p>

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<b>objectives and skills</b>	<p>Import photos, video and sound to create an atmosphere when presenting to different audiences.</p> <p>Change the appearance of text to increase its effectiveness.</p> <p>Create, modify and present documents for a particular purpose.</p> <p>Give constructive feedback to friends to help them improve their work and refine own work.</p> <p>Use iPads to research a country of their choice and then present their findings using the pages app on the iPad.</p>	<p>Import photos, video and sound to create an atmosphere when presenting to different audiences.</p> <p>Give constructive feedback to friends to help them improve their work and refine own work.</p> <p>Identify key words to use when searching safely on the World Wide Web.</p> <p>Think about the reliability of information on the World Wide Web.</p> <p>Using a green screening app write, film and edit a newspaper report about a volcanic eruption.</p>	<p>Recognise that an algorithm will help to sequence more complex programs.</p> <p>Scratch NCC B repetition in games</p>
<b>Assessment</b>	<p>Can I present information using the pages app on the iPads by importing photos and changing the appearance of text to increase its effectiveness?</p> <p>Research and present on pages app on iPads</p>	<p>Can I import photos, video and sound and change the appearance of backgrounds when using green screen?</p> <p>Research and green screen video news report</p>	<p>Can I use repetition to create a game in Scratch?</p> <p>Scratch NCC programming B</p>
<b>WTS</b>	<p>Know that Google and Kiddle can be used to find information but needs support.</p> <p>Add minimal text to poster without changing size, colour or style.</p>	<p>Know that Google and Kiddle can be used to find information but needs support.</p> <p>Is able to open the app needed to create the video but is unsure how to navigate the app</p>	<p>Choose a sprite and a backdrop.</p> <p>Create an algorithm for the sprites that uses repetition.</p> <p>Run their code successfully so it meets some elements of the task.</p>

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<b>EXS</b>	<p>Identify key words to use when searching safely on the internet.</p> <p>Think about the reliability of information on the internet.</p> <p>Save and retrieve work on the Ipad.</p> <p>Import photos to information page using copy and paste.</p> <p>Change the appearance of text.</p>	<p>Identify key words to use when searching safely on the internet.</p> <p>Discuss the reliability of information on the internet.</p> <p>Save and retrieve work on the Ipad.</p> <p>Import photos, video and sound to create an atmosphere</p> <p>Change the appearance of backgrounds and photos to increase its effectiveness.</p> <p>Give constructive feedback to friends to help them improve their work and refine own work.</p> <p>Understand that different elements of the video are needed</p>	<p>Choose relevant sprites and backdrops for a game</p> <p>Create an algorithm that includes show, hide, and move blocks</p> <p>Create an algorithm that includes relevant sound blocks</p> <p>Create additional sprites and copy code over to those sprites</p> <p>Modify their code for additional sprites</p>
<b>GDS</b>	<p>Search the internet with confidence, disregarding websites that are unreliable.</p> <p>Select, use and combine the appropriate tools to create effects that will have an impact on others.</p> <p>Select an appropriate online or offline tool to create and share ideas.</p> <p>Review and improve own work and support others to improve their work.</p>	<p>Purposefully use filming techniques</p> <p>Purposefully use edits to produce an effective video</p> <p>Identify how and why their project could be improved</p> <p>Understand why different elements of the video are needed and the impact they each have.</p>	<p>Identify how additional sprites may need to be modified to enhance the game, for example, use wait blocks to stagger the timing of sprites appearing.</p> <p>Identify aspects of the algorithm that can be reused for additional sprites.</p> <p>Include additional code that enhances the function of the game and reflects design choices.</p>