	Computing – Year 4
	Autumn 1
Computer Systems and Networks - The internet	<ul> <li>The World Wide Web is part of the internet where we can visit webpages and websites (WWW).</li> <li>Web browsers (Google Chrome, Safari, Firefox, Internet Explorer) You need these to access the World Wide Web.</li> <li>We can communicate over the internet and World Wide Web but we must do so responsibly.</li> </ul>
	Autumn 2
<b>Creating Media -</b> Photo Editing	<ul> <li>Digital images can be manipulated for different purposes.</li> <li>Digital images can be edited.</li> <li>Composition in photography is the arrangement of the different elements in a photo.</li> <li>Cropping can reframe a photograph by deleting one or more sides of the image.</li> <li>Cropping can be used to: focus on a particular part of an image, recentre an image, remove aspects of an image or change the topic of an image.</li> <li>The colour and light used in a photo can be altered to change the way people think and feel about the image.</li> <li>Cloning is a process of using one area of a photo to change another area.</li> <li>Retouching an image means focusing on a small part of the image and removing it to improve how the photo looks.</li> <li>A 'composite' image is an image made up of different parts. Two or more images can</li> </ul>
	be combined using the tools: select, copy, paste, move and resize.  Spring 1
<b>Data -</b> Data Logging	<ul> <li>Data is information stored on a computer.</li> <li>Technology can be used to sort data.</li> <li>Input: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors such as data loggers.</li> <li>Data Loggers collects 'data points' from sensors over time</li> </ul>
	Analysing examine (something) in detail to explain and interpret data and information.  Spring 2
Programming - Repetition in shapes	<ul> <li>An algorithm is a precise set of ordered instructions which can be turned into code</li> <li>Coding is how we communicate with computers. Code tells a computer what actions to take.</li> <li>A process is when a computer follows a set of instructions using the data that has been input.</li> <li>Sequence: steps carried out in order.</li> <li>Selection: A decision or a question</li> <li>Repetition – A repeat in code, repeating a sequence of instructions a certain number of times.</li> </ul>
	Summer 1
<b>Creating Media</b> – Audio Editing	<ul> <li>Software is the programme or operating system that a computer uses.</li> <li>Hardware is the physical components of a computer.</li> <li>Input: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors.</li> <li>Outputs The information produced by a computer system for its user; items on a screen, speakers, lights.</li> </ul>
	<ul> <li>Evaluating is to judge or calculate the quality, importance, amount, or value of something.</li> <li>You can create audio with computers such as a podcast.</li> </ul> Summer 2
	An algorithm is a precise set of ordered instructions which can be turned into code
Programming –Repetition in Games	<ul> <li>Coding is how we communicate with computers. Code tells a computer what actions to take.</li> <li>Command is a specific instruction given to a computer application to perform a task.</li> <li>Repetition is where actions or commands in programming are repeated.</li> <li>The repeating commands can also be referred to as a 'loop'.</li> </ul>

o Infinite loops: Loops that can be repeated indefinitely
o Count-controlled loops: loops that repeat for a set number of times
Bug: A mistake in the code.
Debugging is checking the code in a computer program to ensure it works and
changing it if it doesn't.