Computing – Year 5		
Autumn 1		
Computer Systems and Networks - Computing and Networks	 Digital Device is something that has a computer inside to make it work like a washing machine or mobile phone. Digital Devices process other things, other than switching on and off. Digital devices have inputs, processes, and outputs. Input: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors. A process is when a computer follows a set of instructions using the data that has been input. Outputs The information produced by a computer system for its user; items on a screen, speakers, lights. Connection. A link between 2 or more things. Computer Network: A group of two or more digital devices connected together. Communication When data is exchanged between two or more computing devices. Collaboration When more than one person works on a document or program from separate devices. Technology has to be used safely, respectfully and responsibly. 	
Autumn 2		
Creating Media – Video Editing	 Digital Devices process other things, other than switching on and off. Digital devices have inputs, processes, and outputs. Input: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors. Software is the programme or operating system that a computer uses. A video is the recording, reproducing, or broadcasting of moving visual images. Videos can be improved by editing. You can edit by using the tools in video editing software: split, trim and crop. 	
	Spring 1	
Data - Data and Information	 A database is an organised collection of structured information, or data that can be easily accessed, managed and modified. Technology can be used to sort data Grouping and then sorting data allows us to answer questions Collecting locating and organising data. Analysing examine (something) in detail to explain and interpret data and information. Evaluating is to judge or calculate the quality, importance, amount, or value of something. 	
Programming – Selection in Physical Computing	 Spring 2 Programming is when you give an algorithm to a digital device so it can complete its action. An algorithm is a precise set of ordered instructions which can be turned into code Algorithms need to be written in a special language called code so digital devices, can understand them. Coding is how we communicate with computers. Code tells a computer what actions to take. Bug: A mistake in the code. Selection: A decision or a question Repetition – A repeat in code, repeating a sequence of instructions a certain number of times. Connection. A link between 2 or more things. Input: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors. A process is when a computer follows a set of instructions using the data that has been input. Outputs The information produced by a computer system for its user: items on a screen, speakers, lights. 	

Summer 1		
Creating Media – Vector Drawing	 Information Technology helps us to do a job, communicate or for entertainment. Presenting is when you can use a sequence of multimedia formats, such as images, video, audio and text to demonstrate knowledge or skilled learned. Vector drawings are made using shapes that are layered on top of each other. Each element of a vector drawing is called an object Resizing; making your shape bigger and smaller Rotating; Turing your shapes around Duplicate; making the same image again. 	
Summer 2		
Programming – Selection in Quizzes	 An algorithm is a precise set of ordered instructions which can be turned into code Coding is how we communicate with computers. Code tells a computer what actions to take. Sequence: steps carried out in order. Conditions are statements that need to be met for a set of actions to be carried out. When a condition is met, it is referred to as 'true' and when it is not met it is referred to as 'false'. 	
	 Selection: A decision or a question Selection is used to control the flow of actions in algorithms and programs by checking whether a condition has been met. Debugging is checking the code in a computer program to ensure it works and changing it if it doesn't. 	