Computing – Year 6

Autumn 1

Computer Systems and Networks - Internet communication	- The World Wide Web is part of the internet where we can visit webpages and websites (WWW.) - Web browsers (Google Chrome, Safari, Firefox, Internet Explorer) You need these to access the World Wide Web. - Ranking is the process that search engines use to determine the order in which search results will be displayed. - Selection: A search engine creates an index of the World Wide Web using web crawlers. When a search takes place, results are selected from the search engine's index and delivered to the user. - We can communicate over the internet and World Wide Web, but we must do so responsibly.

Autumn 2

Creating Media - Webpage Creation	- The World Wide Web is part of the internet where we can visit webpages and websites (WWW.) - Web browsers (Google Chrome, Safari, Firefox, Internet Explorer) You need these to access the World Wide Web. - Presenting is when you can use a sequence of multimedia formats, such as images, video, audio and text to demonstrate knowledge or skilled learned. - Ranking is the process that search engines use to determine the order in which search results will be displayed. - Evaluating is to judge or calculate the quality, importance, amount, or value of something.

Spring 1

Data - Introducing spreadsheets	- 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. - Presenting is when you can use a sequence of multimedia formats, such as images, video, audio and text to demonstrate knowledge or skilled learned. - Logical Reasoning is the process of applying rules to problem solving in an orderly way.

Spring 2

Programming - Variables in Games	- 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. **Variables** are data values that can change when the user is asked a question for example your age. **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. - Different programs act in different ways, some code is in a: - Sequence - An order of events. - Selection - the process of making a decision. - Repetition - A repeat in code, repeating a sequence of instructions a certain number of times. - Variable: something that can be changed.

Summer 1

Creating Media - 3D Modelling	**Software** is the programme or operating system that a computer uses. **Hardware** is the physical components of a computer. - Information Technology can help us to design, create programs, collect information, analyse data and present information.

	• Different **Software** on digital devices helps people and industries to do different things. • You can use **software** on digital devices to design and create • 3D models can be created on a computer • Presenting is when you can use a sequence of multimedia formats, such as images, to demonstrate knowledge or skills learned • Evaluating is to judge or calculate the quality, importance, amount, or value of something.
Summer 2	

Programming – Sensing	• 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.
	• Different programs act in different ways.
	   o **Sequence** - An order of events.
	   o **Selection** - the process of making a decision.
	   o **Repetition** - A repeat in code, repeating a sequence of instructions a certain number of times.
	   o <u>Variable</u>: something that can be changed.
	• 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.