ICT Year 8

Year 8 – Half term 1 My Digital World What? When? Why?	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Weeks 1 - 6	Learn what to look for in websites when deciding if they are trustworthy or not Practice evaluating a range of websites for trustworthiness and reliability	Understand how search engines work Understand some tools to "search smarter" – improve our search results by reducing search results and increasing their relevance	Understand what Copyright Law is Understand how to use other peoples' ideas/work without breaking copyright law	Understand the great many dangers that are online Learn how to stay clear of these dangers	Understand what cyber abuse is Understand what you can do to combat cyber abuse	Understand the potential consequences of leaving a digital footprint Learn how to communicate appropriately online
Year 8 – Half term 2 Binary Bits & Bobs What? When? Why?	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Weeks 1 - 6	Understand the binary number system. Understand why it is important in computing.	Remember how the binary number system works. Understand how to add binary number together.	Remember how the binary number system works. Understand that computers only know binary.	Remember that everything thing the computer represents (numbers, characters, images, sound) is done so with binary.	Understand that sound is represented by binary numbers in a computer system.	Understand that digital processing is the process of applying mathematical calculations on the binary values which represent

			Understand that in a computer system, characters are represented by binary numbers.	Understand that bitmap images are made up of pixels. Understand how binary is used to represent shades and colours of images – and therefore used to represent images.	Understand the process of sampling.	the recorded sound.

KS3 Short-term planning

Year 9 – Half term 1 Back to the Future What? When? Why?	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6

Weeks 1 - 6	To understand who Alan Turing was To understand how messages can be encrypted using ciphers. To understand how to use a cipher key to decipher codes	To understand who Sir Tim-Berners-Lee is To understand what the World Wide Web (WWW) is and how it differs from the Internet To understand how the WWW was born. To understand how to write a simple web page	To understand who George Boole was To understand what Boolean Logic is To understand what logic gates are and how they are used in a CPU	To understand who Charles Babbage was To understand what Charles Babbage did To understand how 'problem solving' and 'logical thought' underpins Computer Science	To review the unit of work studied over the past few weeks. To understand the areas of study which will be assessed in the exam. To understand how to revise for the exam – revision techniques.	To create a timeline mind map which contains all the major points from this unit of work – prepare for assessment.