KS3 Learning Intentions

Year 7 – Half term 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Computer						
Hardware						
What?						
When?						
Mh.O						
Why?						
Weeks 1 - 6	Understand what a	Remember what a	Remember that a	Understand how	Remember the role	Understand what
Treeks 1 0	computer is and	computer is and	computer is made	the CPU, RAM, and	of the CPU, RAM,	the CPU is, how it
	how they can come	how it processes	up of a range of	Hard Drive work	and Hard Drive.	works and how its
	in various forms.	inputs to produce	components and	together.		performance is
		outputs.	remember their		Remember how the	measured.
	Understand how		purpose / function.		CPU, RAM, and	
	computers receive	Understand that a		Understand how	Hard Drive work	
	commands and	computer is made	Understand the	the input and	together.	
	data.	up of a range of	role of the CPU,	output devices		
		components.	RAM, and Hard	work with the CPU.		
	Understand what		Drive.			
	'processing' means.	Understand the				
	tt. d d. b.	purpose / function				
	Understand how	of these				
	computers can	components.				
	output information.	Understand their				
		relative				
		importance.				

KS3 Short-term planning

Year 8 – Half term 2 Binary Bits & Bobs	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
What?						
When?						
Why?						
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. Understand that in a computer system, characters are represented by binary numbers.	Remember that everything thing the computer represents (numbers, characters, images, sound) is done so with binary. 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 that sound is represented by binary numbers in a computer system. Understand the process of sampling.	Understand that digital processing is the process of applying mathematical calculations on the binary values which represent the recorded sound.

KS3 Short-term planning

Year 9 – Half term 2 Computer Networks What? When? Why?	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Weeks 1 - 6	Understand what a network is. Understand the difference between a home and school network. Identify the network hardware required to set up a home and school network.	Understand what advantages and disadvantages networking brings. Understand the potential security issues when installing and using networks.	Understand the devices needed to produce a computer network. Understand how to increase capacity and improve the efficiency of a network.	Understand the difference between a Local Area Network and a Wide Area Network. Identify examples of both LAN and WAN networks.	Understand what the internet is. Understand the difference between the internet and the WWW.	Understand how data travels around the internet. Understand data packets and how data is sent across the internet.