ICT Year 9

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.
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.