

Topic: 8.1 History of Computing				Duration: 3 weeks		Composite: EoU Test	
Key vocabulary:	Core knowledge questions			Powerful knowledge crucial to commit to long term memory		Links to previous and future topics	
Cipher Compute Cryptography Decode Decryption Encryption	<ol style="list-style-type: none"> When was the first recorded use of the word "Computer"? In 1613 the word was first used to describe a person who performed calculations What was the first 'computer' to be invented in 2400BC? Abacus, used to help count and calculate basic arithmetic operations Who were the first computer programmer and inventor? Ada Lovelace and Charles Babbage Who was Ada Lovelace? Born in 1815, considered to be the first ever computer programmer. Developed computer programs for a machine called the Difference Engine. Who was Charles Babbage? Considered the 'father of the computer', who designed the world's first mechanical computer, the Difference Engine and Analytical Engine What events led to the biggest leaps in computer development? Wars and the desire to gain an edge on the enemy What machine was developed during WWII to decipher enemy plans and movements? Colossus, an electronic code-breaking computer What is the practice of 'Encryption'? Encrypting and decrypting messages in cipher text What is 'Cipher text'? Text that cannot be read with the decryption 'key'. What is a Caesar Cipher? A cipher where each letter maps to another and a 'shift' pattern is used and the key What was the Enigma Code? A code used by the Nazi's to relay messages to their armies frontline Who was the main person credited with cracking the Enigma Code? Alan Turing 			<ul style="list-style-type: none"> Ada Lovelace was considered to be the first computer programmer and Charles Babbage the first computer inventor Ada Lovelace, developed computer programs for a machine called the Difference Engine. Charles Babbage, was considered the 'father of the computer', who designed the world's first mechanical computer, the Difference Engine and Analytical Engine Wars, and the desire to gain an edge on the enemy, led to most of the biggest leaps in computer development Colossus was an electronic code-breaking machine, developed in WWII to decipher enemy plans and movements Encryption is the practice of encrypting and decrypting messages in cipher text Cipher text is text that cannot be read without a key 		<ul style="list-style-type: none"> Possible links to coverage in primary school and out-of-school experiences Provides the foundations of a clear understanding of how and why computers have developed over time 	
We will develop these skills:							
Impressive reading	Impressive speaking	Impressive writing	Resilience	Numeracy via:	Digital Literacy via:	Employability via:	
Reading articles and evaluating reliability	Discuss opinions on computer development and the ethics thereof Vote and justify on key concepts	Research and summarise findings on the history of computers	Developing ability to consistently amend and refine work.	Use of Caesar Cipher and numerical shift patterns to decipher cipher text	Using a range of digital tools. Developing awareness of how computers and similar devices came to be.	Links to how skills (such as maths) can benefit in the field of computing.	