Home-School Learning Collaboration – Computing



opics in this cycle: Computer evolution	Taught: Autumn 1	Year Group: 8	
Key knowledge/concepts to be learnt ('Tell me about')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning	
Describe how computer evo Explain how the evolution of • What is Binary system and Coldentify the difference betwee Describe why a computer or Explain how colossus uses bin • What is Moore's Law? Describe what is Moore's Law Explain how Moore's Law has Explain the how has Moore's • What is the Internet? Identify the different web brodescribe what is the Internet. Explain what we use the Internet. • Changes in computer over the Identify the different cultural	computers can benefit us in real world settings. colossus? een Binary and Colossus. hay use binary data. early to represent data. v. s impacted computer evolution. impacted on the way that we use computers. cowser that is used to access the Internet. ernet for. me? changes in the evolution of computers. changes in computer evolution.	Notes/Information Computer Evolution History of Computers From 1930 to Present - YouTube Binary and Colossus Colossus: Creating a Giant - YouTube Moore's Law What is Moore's Law? [Explained] - YouTube Moore's Law - YouTube The Internet What is the Internet? - YouTube Changes in computers over time The impact of computer science technologies - Ethical, legal and environmental impacts of digital technology - BBC Bitesize - KS3	
		Videos History and evolution of computers Evolution of COMPUTER 1930 To 2021 The Untold History of the COMPUTERS - YouTube	

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?	
Evolution	The process of developing by gradual changes.	Extended writing – The use of Colossus the world's first computer.	
Computer	Are electronic devices that accept data (input), process that data, produce output, and store (storage) the results.		
Data	Is a sequence of bits (binary digits) with a value of one or zero	Short answer questions Extended writing	
Binary	Number system that only uses two digits: 1 and 0.		
Transistors	A transistor is a semi-conductor that amplifies a signal from a sensor - it is like a small electronic switch.	3 marks for SPAG	
Valves	Vacuum/Valves tubes contain electrodes for controlling electron flow and were used in early computers as a switch or an amplifier.	Family Learning Opportunities	
Internet	A computer network that connects computers worldwide.	Create a time line with the different changes in computers evolution from 1930's to present with your family.	
LAN	Local Area Network - is a collection of devices connected together in one physical location, such as a building, office, or home.	1900 Annual Prince Control Con	
WAN	Wide Area Network - is a collection of local-area networks (LANs) or other networks that communicate with one another	Devise a quiz on the different stages of computer evolution and test your family.	