Year 6 - Bletchley Park - HT1

Key Vocabulary

Beacon Curriculum Computing

	Acrostic code	A type of code where the first letter of each word, line, or paragraph when put together spells a message.	Over 10,000 people worked for Bletchley Park. Over 75% of the workers were women.
	Brute force hacking	When someone, known as a hacker, uses different types of methods, such as trial and error, to crack entry into secured information.	In 1943, the Colossus computer was constructed by codebreakers during World War II. This enormous machine was the world's first electronic programmable
	Caesar cipher	A way in which every letter is replaced with another letter in a fixed number of places down the alphabet.	computer. It took hours rather than days and weeks to crack encrypted messages to help win the war.
	Chip and pin system	A payment system to buy something securely where a plastic bank card, such as a debit or credit card, has a chip in it, which the card owner can access by entering a Personal Identification Number (PIN).	
	Cipher	Information that is written in a secret way, also known as a code.	
	Date shift cipher	A code derived from the date that tells you how many spaces to move each of the letters in the coded message. For example, the date I January 1984 written in date format becomes '01011984'. This tells you to move the first letter of your coded word 0 spaces, the second letter by I space etc.	The Colossus
	Encrypt	Converting information/data into a secret code or message, to avoid unauthorised access.	Enemy messages, which were encrypted, had to be
	Invention	A new device or process that solves a problem.	written down on paper. Then they were sent over to
	Nth letter cipher	A type of code where you choose the Nth letter of the text /code again and again until the text ends. Say N=10, then you find every 10th letter in the text/code till you reach the end of it, to reveal a secret message.	Bletchley Park, often by motorbike. Example: Date shift cipher:
	Password	A unique combination of letters, numbers or symbols that protects personal information online.	Visual representation:
	Pigpen cipher	A substitution code, where letters are exchanged for symbols, which are parts of a specific grid.	Date used to encrypt the message: Ist January 1984 In number format this would read: 01 01 1984
	Technological advancement	When scientific discoveries are made that can lead to the development of new or existing technologies to improve on current processes in life.	Original message: h e l l o Each letter shifted: 0 1 0 1 1
	Trial and error	To test a method of resolving something, and if it fails, to try another method and continue this process until success has been achieved.	Encrypted message: h f l m p

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abcdefghijklmnopgrstuvwxyz

To know statements

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know that code can be used for a number of different reasons and decoding messages. I know how to ensure a password is secure and

how this works. Understanding why a longer password is more secure than a short one.

I know what the first computer was built for. Presenting a simple website with information about Bletchlev Park including the need to build electronic thinking machines to solve cipher codes.

I know the importance of historical figures and their contribution towards computer science

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I know how to represent information about a historical figure in an interesting and engaging manner using presentation software

What can you remember from previous units?

What is a search engine? What is TASK? What does 'copyright' and 'fair use' mean? Anything else you have learnt? What have you enjoyed?