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Problem solving

Year: Six

## How to use computers purposefully and safely.

- Explore a range of codes, from simple cyphers to the Enigma code used by the Nazis in WW2.
- Discover how hacking can work and the importance of secure passwords.

**Topic:** Bletchley Park 1

- Learn about the role of Bletchley Park in WW2 and the birth of computers.
- Understand how key people have influenced computing and the development of computers.

## Key Skills

Using trial and improvement to decipher codes:



## XIZ BSF TFDSFU DPEFT VTFGVM?

Can you work out what this says?

	Key Vocabulary	Websites to help:	
Cipher	A secret or disguised way of writing. Often called a code.	To find out more about code-	
Hacking	An attempt to get into a computer, computer system or a private network without the permission of the owner.	breaking (cryptology!): https://www.cerias.purdue.edu/ education/k- 12/teaching_resources/lessons_p	
Brute force hacking	A strategy for guessing account passwords. This involves a program automatically checking through all possibilities of a password until it finds the correct one.		
Password	A series of letters, numbers or symbol used to log a user on to a computer system. It acts like a digital key to unlock the device.	<u>resentations/cryptology.html</u>	
Secure	A secure password is difficult to guess by both humans and computer programs, effectively protecting the computer or file from being hacked.	If you really like a code-	
Chip and pin	A system of protecting things using a secret number (personal identification number or PIN) and card that has an electronic chip in it.	cracking challenge: <u>https://teachinglondoncomputin</u>	
Trial and error	A process of experimenting with various methods of doing something until you find the most successful. Often called trial and improvement.	g.org/code-cracking-puzzles/	
Encryption	To scramble or jumble information using a cipher so that it can be sent safely without anyone being able to read it unless they know the code.		