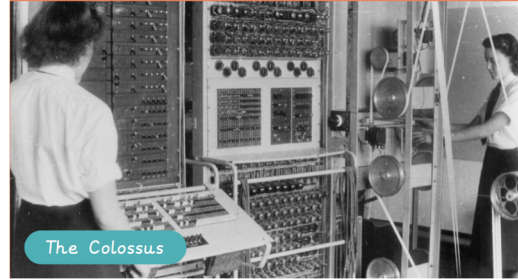


Bletchley Park

Vocabulary

| | |
|---------------------|---|
| Acrostic code | A type of code where the first letter of each word, line or paragraph when put together spells a message. |
| 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. |
| 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. |
| Encrypt | Converting information/data into a secret code or message, to avoid unauthorised access. |
| Invention | A new device or process that solves a problem. |
| Password | A unique combination of letters, numbers or symbols that protects personal information online. |
| 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. |



In 1943, the Colossus computer was constructed by codebreakers during World War II. This enormous machine was the world's first electronic programmable computer. It took hours rather than days and weeks to crack encrypted messages to help win the war.

Key Knowledge

- Over 10,000 people worked for Bletchley Park. Over 75% of the workers were women.
- Enemy messages, which were encrypted, had to be written down on paper. Then they were sent over to Bletchley Park, often by motorbike.

Visual representation:

Date used to encrypt the message: 1st January 1984
In number format this would read: 01 01 1984

Original message:

| | | | | |
|---|---|---|---|---|
| h | e | l | l | o |
|---|---|---|---|---|

Each letter shifted:

| | | | | |
|---|---|---|---|---|
| 0 | 1 | 0 | 1 | 1 |
|---|---|---|---|---|

Encrypted message:

| | | | | |
|---|---|---|---|---|
| h | f | l | m | p |
|---|---|---|---|---|

a b c d e f g h i j k l m n o p q r s t u v w x y z