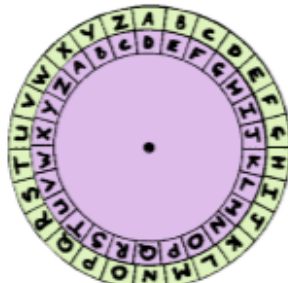**the evolvetrust** — Ambitious Futures

Encryption:

Pigpen Cipher:

A simple code where the shape around a letter replaces it as the code.

Caesar Cipher:

A code which uses a **key** to **offset** the original letter. Ie A becomes D (Key of 3)

Vigenère cipher :

A code similar to the Caesar cipher, but uses a keyword to chose which variation of the cipher to use for each letter.

Bletchley Park:

The centre of British **codebreaking** during World War 2

The Enigma Machine:

A machine used by the Nazis to encrypt communications. It was 'cracked' by a team at Bletchley Park.

Links:

Alan Turing:

Largely seen as the creator of modern computing. He led a team of mathematicians to crack

Colossus:

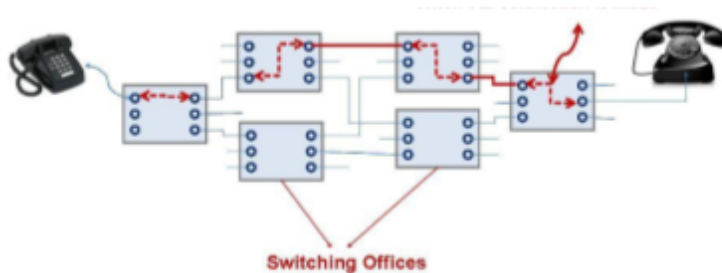An early **digital** computer used to break the **Lorenz cipher** used by German high command.

Packet Switching:

Message Packets take independent paths

In **packet switching**, each data packet is sent on a different route around the internet.

Circuit Switching:

Switching Offices

In **circuit switching**, a physical path of connections is set for the whole duration of the

Efficient Searching of the Web:

We can use a variety of tools to search the web efficiently: Reverse Image Search, Keywords, Advanced Search options...each can make it easier to find the specific information we are looking for
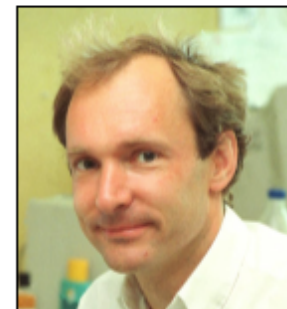
The Cold War:

A conflict between the USA and the USSR over nuclear weapons . This was one of the main drivers behind the development of the early internet.

Historical Figures:

Donald Davies

One of the inventors of packet switching. Todays internet can be directly traced back to this invention. He coined the term packet.

Tim Berners Lee

Invented the WWW in 1989. He programmed the first client and server in 1990. He is the current director of the W3C which regulates communica-tion protocols on the internet

Other Keywords:

Keyword	Definition
Packet	A single chunk of data —usually part of a larger file
Bandwidth	The amount of data that can be transmitted at one time
Broadband	A high bandwidth method of sending information across a network
Server	A computer that manages data and programs for a network
Protocol	A set of rules that enable communication across a network
Network	A system of computers that are connected together to allow communication and sharing of resources
Internet	A global system of connected networks
Encryption:	A method that is used to secure data Eg **Bank Details**
Decryption	A method of looking at a code and working out the original message
Plaintext	The original message before it is encrypted
Ciphertext	The data once it has been secured using encryption
Cipher	The method of creating a code