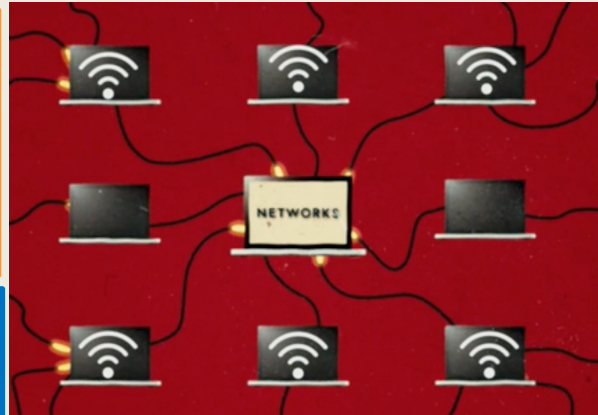


NPA Knowledge Organiser: Year 4 Computing - Autumn

Computing Systems and networks – The Internet



Vocabulary

Internet, network, router, network security, Network switch, server, wireless access point (WAP), router, website, web page, web address, routing, web browser, World Wide Web, content, links, files, use, content, download, sharing, ownership, permission, information, sharing, accurate, honest, content, advertisements.



This year, we will be looking at different skills we can use computers for including audio and video editing, researching information, and programming games. We will look at using the skills you gained last year and building on them to delve even deeper into the world wide web!!

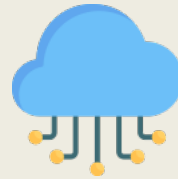
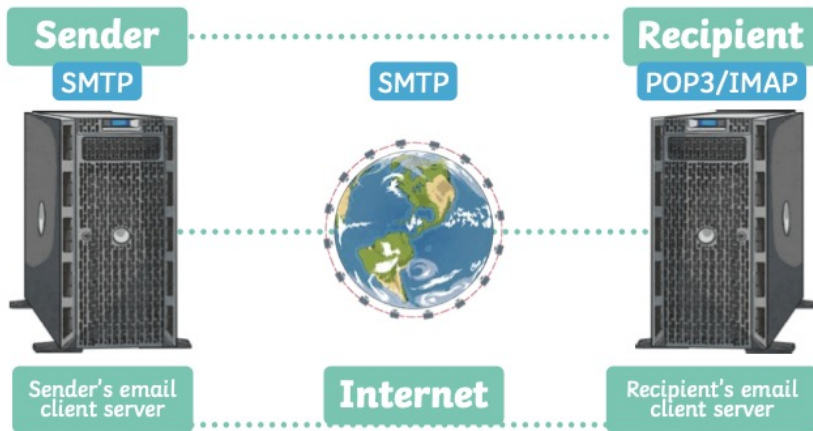
FACTS

- The internet was invented on 1st January 1983.
- It originated in the USA.
- 1 person didn't invent the internet, rather a group of scientists put their ideas together.
- 5.03 Billion people use the internet – about 63% of the world.



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The Journey of the Email



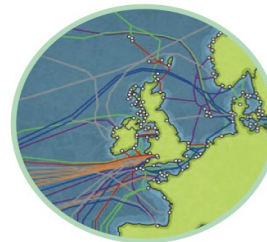
Our units will be:

- Connecting networks
- What is the internet made of?
- Sharing information
- What is a website?
- Who owns the web?
- Can I believe what I read?

How Do Search Engines Work?

When looking for something like an image, a request is sent in a packet to a web server. Each computer has its own **IP address** which is like a postcode. Requests can be made by fibre-optic cables under the sea (submarine cables) or via satellite. The web server can then send the information back to your computer.

Wireless technology can also be used to connect to the Internet which uses radio signals to send and receive data via a router.



Online Communication

This is how we interact with other people using technology over the **Internet**. We can use devices, such as smartphones, computers or tablets to do this.

We can communicate through instant messages, **emails**, video calls, gaming and social media.



“I do not fear computers. I fear lack of them.”
- Isaac Asimov.