

The Internet knowledge organiser

The Structure of the Internet

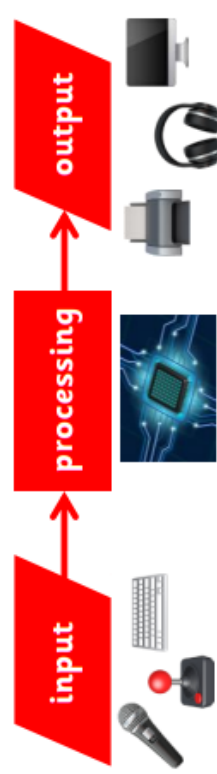
The Internet is an international network of computers connected together.



BT **sky** **An Internet Service Provider** lets you connect to the Internet.

Computer Systems

- **Hardware** is all the physical electronic components of a computer.
- **Software** is the programs which run on a computer, like a word processor or a game.



Control systems monitor the environment and make a computer react.

You control a **thermostat** so the heating knows at what temperature to turn itself on and off.



A **burglar alarm** will sound if it has been turned on and senses somebody moving around.



| | |
|-----------------------------|---|
| Digital device | A machine that has a computer inside. |
| Connection | When devices are linked together so they can share information. |
| Network | Two or more computers working together. |
| Network switch | A network switch connects devices in a network to each other, enabling them to talk by exchanging data packets. |
| Wireless access point (WAP) | A device that allows people to connect Wi-Fi devices. |

Year 5/6

Communication and collaboration

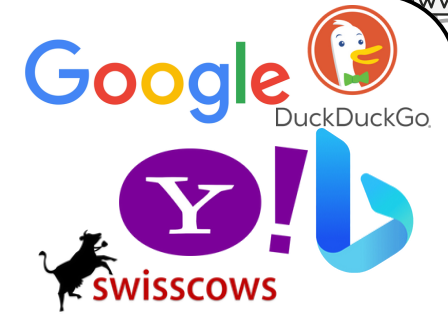
Social media



Many **social media influencers** collaborate with other **influencers** to create posts and stories together.

Sometimes they will meet up to make their content together, but often they will record their pieces separately and then put them together using digital technology.

Some people **collaborate** on **songs** and **dances** using platforms like TikTok or Instagram.



Search Engine

A search engine is a service you use on the **Internet** to help you find information via the World Wide Web.

They allow us to input words or phrases into the search bar or address bar. The search engine then provides a list of **websites** or **web pages** that link to the words or phrases that were inputted.

Online Collaboration

This means we can work together on a task on a digital platform. The tools available in online collaboration software enable us to collaborate effectively and efficiently.

Often, **cloud storage services** are used for online collaboration purposes. Examples include Google Drive and Microsoft OneDrive.



Search engines use **algorithms** to order the list of webpages they return.

The webpages that are placed at the top of the list are usually the most useful to you. All the webpages have been visited by the **search engine's web crawlers**.

So the next time you use a **search engine** to find information, remember that **web crawlers** have created an **index** and an **algorithm** was used to rank the results.

| | |
|--------------------|--|
| web browser | A web browser allows you to access the Internet , including search engines and other web pages . |
| web crawler | A computer program that crawls across the World Wide Web to find and index pages for search engines. It is sometimes called a spider. |
| web page | This is a specific page that is viewed on a web browser by entering a URL address . It can display text, graphics and hyperlinks to other web pages . |
| website | This is a collection of web pages grouped together. |

