

Learning

- 🔊 To understand what a network is
- 🔊 To know key parts of a computer network
- 🔊 To understand how information is exchanged between devices
- 🔊 To understand that the internet is the physical connections between computers and networks
- 🔊 To understand how data travels throughout a network
- 🔊 To understand that devices on networks have a unique address

Key Vocabulary

Network
Network Switch
Server

Connecting hardware that makes it possible to transfer data
A device that allows devices on a network to connect to each other

Wireless Access Point (WAP)
WIFI
Router

A computer that manages the network and stores files
A device that sends and receives wireless signals between devices with WIFI

Internet

A device that sends/receives data using wireless technology
A device that connects lots of networks together and allows access to the internet

IP Address
URL

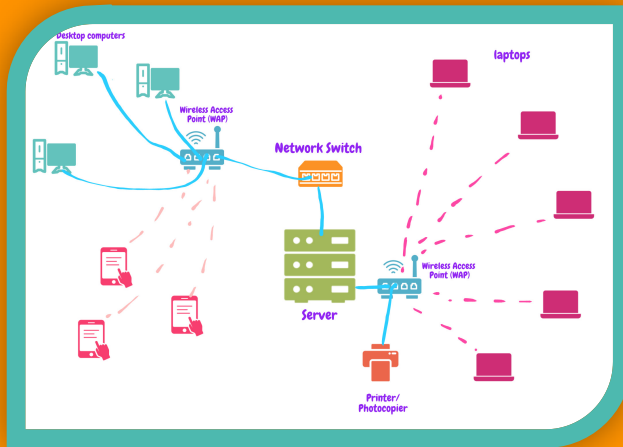
The cables, transmitters, receivers, switches and routers (infrastructure) that connects networks to other networks

The unique address of a device on a network
Uniform Resource Locator. A web address that specifies the location of content on a network

DNS

Domain Name Server. A server that takes a URL, translates it to an IP address and directs data across a network

Example



Key Questions

Why is it useful to have connected computers?

Sharing files, printing etc.

What is the difference between wired and wireless devices?

Wired devices are connected by physical wires.
Wireless devices connect to each other by transmitting radio signals through the air.

What is this device on our school network?
What does it do?

E.g. The network switch.
It connects computers in the IT suite together

What is the Internet?
How do computers access the internet?

The physical connections between networks

Through a router

How are devices on a network identified?

By IP addresses

What is the URL of one of your favourite websites?

E.g. www.youtube.com