Year 3: Networks



Sticky Knowledge

What should I know about Networks?

What is a network? What is a computer network Why are computer networks useful?

How are computers on a network connected?

How can computers be connected wirelessly?

What is the Internet?

How can you find devices on a network?

How can you find webpages on the internet?

What is a Domain Name Server?

Things that are connected

Computers that are connected

Being connected means that computers can share information and resources. Files can be stored centrally on a network and resources like printers shared They can be connected by wires and cables between devices or wirelessly

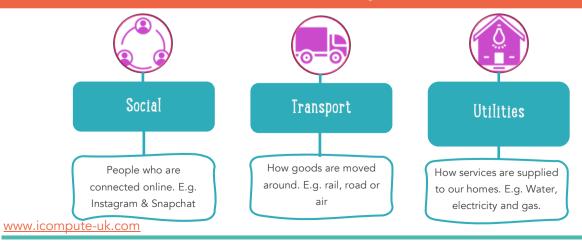
Using a device called a Wireless Access Point (WAP)

The biggest computer network in the world. It is the cables, transmitters, receivers, switches and routers that connects networks to other networks Each device on a network has its own unique address. Called an **Internet Protocol (IP)** address

Each webpage and website has its own unique address. Called a **Uniform Resource** Locator (URL). This address specifies where on the Internet it 'lives'

A **Domain Name Server (DNS**) takes a website's URL and translates it to an IP address and directs data across a network to get to the right place

Network Examples



Key Vocabulary



Network: connecting hardware that makes it possible to transfer data



Network Switch: a device that allows devices on a network to connect to each other



Server: a computer that manages the network and stores files



Wireless Access Point: A device that sends and receives wireless signals between devices with WIFI



WIFI: a device that sends and receives data using wireless technology

Router: a device that connects lots of networks together and allows access to the Internet



IP Address: cables, transmitters, receivers, switches and routers (the infrastructure) that connects networks to other networks

RL: Uniform Resource Locator. A web address that ecifies 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

