Sticky Knowledge

What should I know about Networks?

What is a network?	Things that are connected
What is a computer network	Computers that are connected
Why are computer networks useful?	Being connected means that computers can share information and resources. Files can be stored centrally on a network and resources like printers shared
How are computers on a network connected?	They can be connected by wires and cables between devices or wirelessly
How can computers be connected wirelessly?	Using a device called a **Wireless Access Point (WAP)**
What is the Internet?	The biggest computer network in the world. It is the cables, transmitters, receivers, switches and routers that connects networks to other networks
How can you find devices on a network?	Each device on a network has its own unique address. Called an **Internet Protocol (IP)** address
How can you find webpages on the internet?	Each webpage and website has its own unique address. Called a **Uniform Resource Locator (URL).** This address specifies where on the Internet it 'lives'
What is a Domain Name Server?	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

Social
People who are connected online. E.g. Instagram & Snapchat

Transport
How goods are moved around. E.g. rail, road or air

Utilities
How services are supplied to our homes. E.g. Water, electricity and gas.

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

URL: 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

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