

Kit's Computing Connections: Understanding Networks

Learning objective: To understand the basic components and functions of computer networks, including how devices share information.

Read the front of each flashcard to test your knowledge about how computers talk to each other. Flip the card to check if your answer matches Kit the Fox's definitions!

What is a computer network?

A group of computers and devices that are connected together to share information and resources.

What is a server?

A powerful computer that provides services, data, or programmes to other computers on a network.

What is a client?

A computer or device that requests services or information from a server.

What does a router do?

It acts like a traffic controller, directing data packets between different networks to ensure information reaches the right place.

What is Wi-Fi?

A way of connecting devices to a network without using physical wires, using radio waves instead.

What is the Internet?

The largest network in the world, which connects millions of smaller networks together globally.

What is data?

Information, such as text, pictures, or sounds, that is sent across a network in a digital format.

What is a switch?

A device that connects multiple computers within a single local network, helping them talk to each other directly.

What is a data packet?

A small piece of data that is sent across a network, large files are broken down into these small pieces to travel faster.

What is hardware?

The physical parts of a computer system, such as the cables, screens, and the computers themselves.

Why do we use networks?

To share files, communicate with others, and allow multiple devices to use the same equipment like printers.

What is a local area network (LAN)?

A network that connects computers in a small area, like a single classroom or a house.