

Kit's Computing Quest: Exploring Networks

Learning objective: To understand the fundamental components and functions of computer networks, including hardware, connectivity, and the internet.

Use these flashcards to test your knowledge of how computers communicate. Read the term or question on the front, then flip to check the answer provided by Kit the fox.

What is a Computer Network?

A collection of computers and devices connected together to share resources like files, printers, or internet access.

What is the function of a Router?

A device that directs data traffic between different networks, helping information find the fastest path to its destination.

Define a Server.

A powerful computer that provides services, data, or resources to other computers, known as 'clients', on the network.

What is Wi-Fi?

A technology that uses radio waves to provide wireless high-speed internet and network connections to devices.

Explain the term 'Internet'.

A global network of interconnected networks that allows computers all over the world to communicate with each other.

What is a Data Packet?

A small unit of data that is sent across a network, when large files are sent, they are broken down into these smaller pieces and reassembled at the destination.

What is a LAN?

Local Area Network, a network that connects devices within a limited area, such as a single school building or a home.

Define IP Address.

A unique string of numbers that acts like a digital 'home address' for a device, allowing it to be identified on a network.

What does 'Bandwidth' measure?

The maximum amount of data that can pass through a network connection at any one time, often compared to the width of a pipe for water.

What is a WAN?

Wide Area Network, a network that spans a large geographical distance, such as a city, a country, or the entire world.

Explain the role of a Switch.

A networking device that connects devices on a specific LAN and manages the flow of data so information only goes to the device that needs it.

What is a Client?

A device (like a laptop or tablet) that requests services or information from a server.