KNOWLEDGE ORGANISER

COMPUTING | **CONNECTING COMPUTERS AND THE INTERNET** | **LOWER KEY STAGE 2**

Cross curricular links

Science
Understanding electrical and communication systems.
Exploring how information travels.
Investigating technology in everyday life.

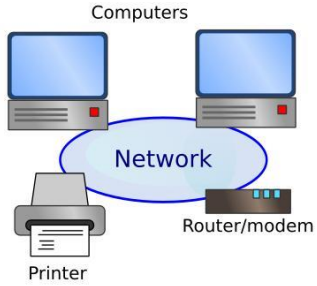
Mathematics
Logical thinking and sequencing.
Problem-solving using routes and pathways.
Understanding patterns and connections.

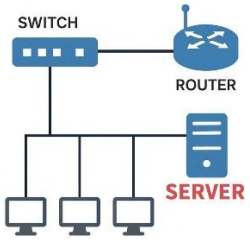
Geography
Exploring global communication networks.

PSHE / Online Safety
Understanding network security.
Discussing safe internet use.
Recognising responsible digital behaviour.

Design & Technology
Designing and building model networks.

Pictures/photos relevant to topic





Key skills

Identifying parts of a computer network.
Explaining how devices connect together.
Understanding the role of switches, servers, routers, and wireless access points.
Recognising how information travels across networks.
Understanding the difference between the internet and the World Wide Web.
Identifying websites, webpages, and web browsers.
Exploring how networks are protected.

Key Vocabulary/definitions

Network- Two or more connected computers or devices.
Server- A computer that stores and provides information or services to other devices.
Wireless Access Point (WAP)- A device that allows wireless devices to connect to a network.
Router- A device that directs information between networks.
Internet- A worldwide network of connected networks.
Routing- Choosing a path for information to travel across networks.
Network Security-Protecting a network from unwanted access or harm.
World Wide Web (WWW)-A system of webpages and websites accessed through the internet.

Home Learning

My Connections

Draw a network map showing people you are connected to:

- Family
- Friends
- School

Use lines to show the connections.

Build a Network

Use string or paper to create a simple model network showing:

- Computers
- A switch
- A server
- A router

Label each part.

Web Browser Challenge

Find different web browsers used at home or school, such as:

- Google Chrome
- Microsoft Edge
- Safari

Discuss:

- What they are used for.
- Which one you use most often.