



What I should already know: How to use the mouse and keyboard, understanding what a computer is and using applications.

**What will I learn?**

1. Can we understand what a network is?
2. Can we explain how information moves around a network?
3. Can we explain a website's journey?
4. Can we know the role of routers?
5. Can we understand the role of packets?

**Key Vocabulary**

**Device** - Equipment created for a certain purpose or job.  
**DSL** - Digital Subscriber Line. An internet connection for rural areas, where wired services are not available. It uses communication satellites to send and receive data and is a slower internet connection than wired connections.  
**File** - An item on a computer that can keep data in various forms such as images, music and documents.  
**Internet** - A worldwide network, enabling tens of millions of computers around the globe to share vast amounts of information and communicate with other online users across the globe.  
**Laptop** - A computer that is portable and can be used when travelling.  
**Network** - When more than one electronic device is connected in a network through the internet or a local connection in order to share files and information.  
**Network map** - A diagram that shows what type of and how many devices are on a network. It also shows how they are connected to each other.  
**Network switch** - A device that deals with the movement of network information.  
**Packets** - Small pieces of data that are sent through the internet.  
**Router** - The main device responsible for providing internet access to a network, and can be connected to through a wired connection or WiFi.  
**Server** - A computer or computer program that provides data and information to other computing devices.  
**Submarine cables** - Cables that run under the sea to allow information to be accessed and (shared around the world or across continents.)  
**The Cloud** - Refers to data and files that are stored and accessed on servers via the internet.  
**Web server** - Computer software that uses HTTP (runs websites).

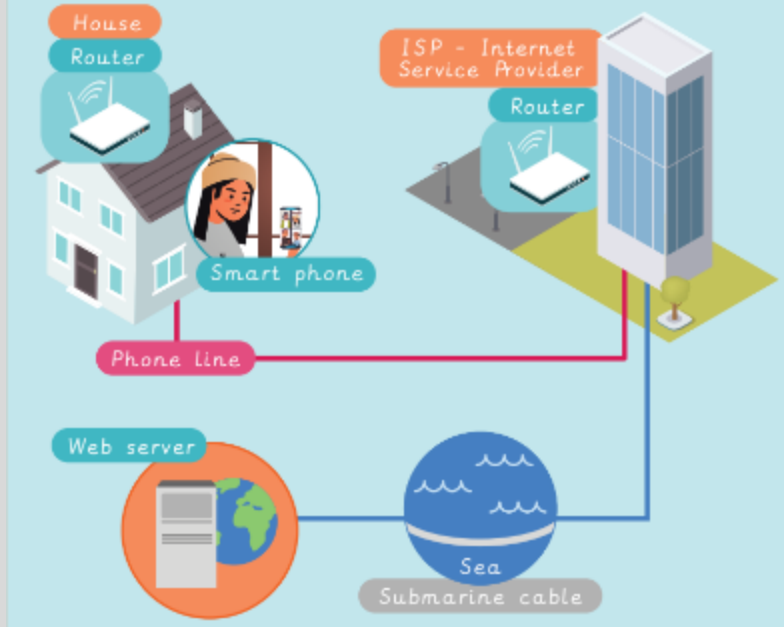
**Key Skills (National Curriculum)**

Pupils will be taught (KS1/KS2):

- 1) Recognise common uses of information technology beyond school.
- 2) Understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration.

**Website** - Web pages found under one single domain name.  
**Website trackers** - 3rd parties collecting and storing information about peoples' activities on the web.  
**WiFi** - When you have, or can connect to a network that is wireless.  
**Wired** - An electronic device is considered 'wired' when it is connected to the network through cables.  
**Wireless** - An electronic device is considered 'wireless' when it is connected to the network through signals.  
**Wireless Access Points** - A device that enables other electronic items to connect wirelessly to the internet.  
**World Wide Web** - All public websites that people can access on their computers.

### Network map:



### The internet can be used for:



- Communicating (email, video call, voice call etc.)
- File sharing
- Websites
- Uploading and downloading files
- Streaming media (videos, music etc.)
- Playing online games

Links to other areas of the curriculum :