



## Word Aware

### Anchor:

Input  
Output  
Programs  
Device

### Goldilocks:

Digital Device  
Process  
Connection  
E-Safety

### Step On:

Network  
Network switch  
Server  
WAP

## Previous knowledge

Technology is something that has been made by people to help us.  
Information technology (IT) includes computers and things that work with computers.  
Understand the importance of using the internet safely.

## Computing Knowledge Organiser Year 3: Computing Systems and Networks: Connecting computers

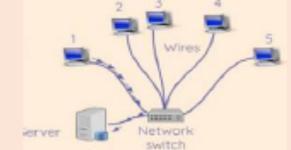
### Digital Devices – Input, Process Output (IPO)

A device is something that has been made for a particular purpose (it has a special use). -  
Digital devices use processing (have a process)  
There is more than just an on-off function.  
Digital devices have an input, process, output.

## Key Knowledge – what I need to know

### Networks and Network Devices

**Connections and Networks:** In Computing, a connection describes a link between the computer and something else. For example, a computer may be connected to the internet through wires, a mobile data system, or WiFi. Computer network is a set of connections that joins computers together. The computers in the network can send and receive information to one another.



**Network Devices:** Network switch: a device that helps different devices on a network to be connected with each other. -Server: a computer that manages the network and stores files  
Wireless access point (WAP): a device, connected to a wired network, that sends and receives wireless signals to and from devices.

### Why Networks Are Useful

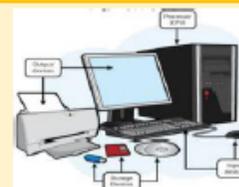
Computer networks allow us to send and receive information between computers that are in different places.  
Networks can help us to communicate quickly and easily.  
Networks can also join computers to shared devices, like scanners and printers.  
The internet is a global network of computers.  
If information is shared on a network, it helps to reduce the risk of data being lost, e.g if one computer breaks.

**Input:** Something that sends a message to the device e.g. You press a button on the keyboard.

**Input Devices:** Keyboard, USB, mouse, web cam, microphone, touch screen, speakers, digital camera.



**Process:** The device acts on the message e.g the computer follows a program that tells it what to do when the keyboard is pressed.



**Output:** Something that is sent out by the device e.g. The letter that you have typed on the screen.

**Output Devices:** Screen/monitor, printer, headphones, projector, speaker, smartboard.

