



## Year 3 Connecting Computers

### Key vocabulary

|                |                                                                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Digital Device | An electronic device that can create, generate, send, share, communicated, receive, store, display, or process information. |
| Input          | Something that sends a message to the device.                                                                               |
| Output         | Something that is sent out by the device.                                                                                   |
| Process        | The way the device acts on the message.                                                                                     |
| Connection     | How computers and digital devices can be joined together. This may be using wires or wifi.                                  |
| Network        | When two or more computers (or electronic devices) connect together by cables or Wi-Fi.                                     |
| Network Switch | A device that helps different devices on a network to be connected with each other.                                         |
| Server         | A computer or computer program which accesses to a resource or network.                                                     |

### Networks and Network Devices

| Connections and Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Network Device                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- In Computing, a connection describes a link between the computer and something else.</li> </ul> <p>An example: a computer may be connected to the internet through wires, a mobile data system and WiFi.</p> <ul style="list-style-type: none"> <li>- A computing network is a set of connections that joins computers together.</li> <li>- The computers in the network can send and receive information to one another.</li> </ul> | <p>Network switch: a device that helps different devices on a network to be connected with each other.</p> <p>Wireless access point (WAP) a device, connected to a wired network, that sends and receives wireless signals to and from devices.</p>  |

### 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. Imagine how different life would be without the internet!
- If information is shared on a network, it helps to reduce the risk of data being lost, e.g. if one computer breaks.



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

Input: Something that sends a message to the device.

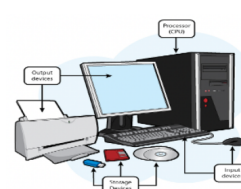
Example: You press a button on the keyboard.



Input Devices: Keyboard, joystick, mouse, web cam, microphone, touch screen, track, ball and digital camera.

Process: The device acts on a message.

Example: The computer follows a program that tells it what to do when the keyboard is pressed.



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

Output Devices: screen/monitor, printer, headphones, projector, speaker and smart board.

