

Prior Learning (Y2):

Learners will develop their understanding of what information technology (IT) is and will begin to identify examples. They will discuss where they have seen IT in school and beyond, in settings such as shops, hospitals, and libraries. Learners will then investigate how IT improves our world, and they will learn about the importance of using IT responsibly.

Year 3

Computer Systems and Networks: Connecting Computers

Current Learning (Y3):

Learners will develop their understanding of digital devices, with an initial focus on inputs, processes, and outputs. They will also compare digital and non-digital devices. Next, learners will be introduced to computer networks, including devices that make up a network's infrastructure, such as wireless access points and switches. Finally, learners will discover the benefits of connecting devices in a network.

Future Learning (Y4):

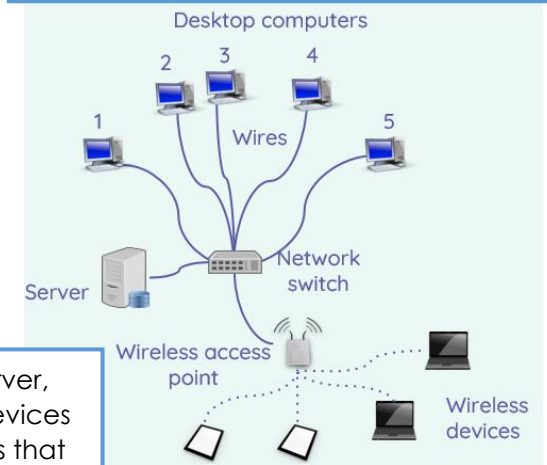
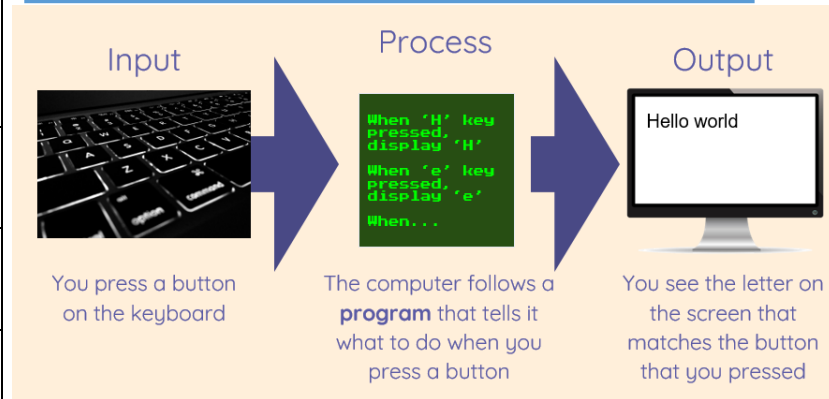
Learners will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure. They will learn that the World Wide Web is part of the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who owns content and what they can access, add, and create. Finally, they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.

Key Vocabulary

Network	Two or more computers connected to electronically send data
Network Switch	A device that connects multiple devices on a network with one another
Wireless Access Point	A device connected to a wired network, which sends and receives wireless signals for devices with Wi-Fi connectivity.
Input	Information that goes into a computer
Output	Information that comes out of a computer
Server	A computer that stores things on a network

Digital devices must have an input, process and an output

Multiple computers can be connected to create a network. By using a network switch we are able to make connections a lot simpler between many digital devices.

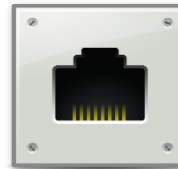


Key Questions:

- How does a digital device work?
- What parts make up a digital device?
- How do digital devices help us?
- How am I connected?
- How are computers connected?
- What does our school network look like?



Network cables:
wires used to connect wired devices to the network



Network sockets:
allow network cables to be connected to the network

By adding a server, many digital devices can access files that are stored on a network.

Using a wireless access point enables devices to be connected wirelessly using WIFI connectivity.