



Linked learning theme: Year 3 – Autumn 1

Computing – Computing Systems and networks – Connecting computers.

Prior Learning

- During Year 1 and 2, learners will have explored technology in the wider world and its ability to be used to serve a purpose, including the linking of devices to facilitate communication. They will build on this knowledge throughout this unit by further exploring the benefits of creating a network of computers.

Core knowledge

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.

Key skills

- Identify inputs, processes and outputs.
- Explain how individual functions of a computer come together to form a process.
- Identify inputs, processes and outputs, and the functions these create in everyday objects.
- Compare digital and non-digital processes to create a functioning system.
- Explain how and why computers are connected.
- Describe the process of linking devices.
- Apply conceptual knowledge of linked networks to real-life examples.

Vocabulary

Connection
Digital
Function
Input
Network
Network switch
Non-digital
Output
Process
Server

Learning Outcomes

- To explain how digital devices function.
- To identify input and output devices.
- To recognise how digital devices can change the way that we work.
- To explain how a computer network can be used to share information.

- To explore how digital devices can be connected.
- To recognise the physical components of a network.