# Connecting computers

## Innovation

### Prior Knowledge

<u>Year 1:</u> Computing systems and networks, creating media: digital painting, digital writing, grouping data, moving a robot, introduction to animation.

<u>Year 2:</u> IT around us, digital photography, making music, pictograms, algorithms, quizzes.

### Where next? Future learning

<u>Year 3:</u> Stop-frame animation, desktop publishing, branching databases, sequence in music, events and actions.

<u>Year 4:</u> The internet, audio editing, photo editing, data logging, repetition in shapes, repetition in games

<u>Year 5:</u> Sharing information, vector drawing, video editing, flat-file databases, physical computing, selection in quizzes.

<u>Year 6:</u> Communication, 3D modelling, web page creation, spreadsheets, variables in games, sensing.

### My Component Knowledge:

Lesson 1: I can explain how digital devices function.

Lesson 2: I can identify input and output devices.

Lesson 3: I can recognise how digital devices change the way we work.

Lesson 4: I can explain how a computer network can be used to share information.

Lesson 5: I can explore how digital devices can be connected.

Lesson 6: I can recognise the physical components of a network.

### My Composite Knowledge:

I understand that digital devices can perform a range of functions that can be useful in everyday life. I understand how digital devices can impact the way we work.

### My Powerful Knowledge:

I am developing my understanding of computing systems and what each component can be useful for. I understand that computers impact our daily lives.
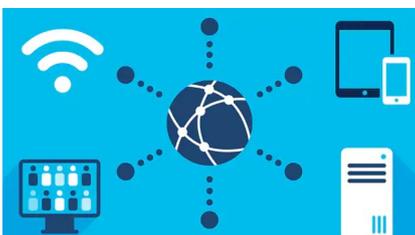
### Key Vocabulary

**Tier 1:** computer

**Tier 2:** digital device, input, output, connections, server, networks, systems, network switch

**Tier 3:** function, process, infrastructure

What is a function?

What is an input?

What is a digital device?