

Computing Systems and Networks- Connecting Computers

Key Question/What will I learn by the end?

Lesson 1 – How does a digital device work?

Lesson 2 – What parts make up a digital device?

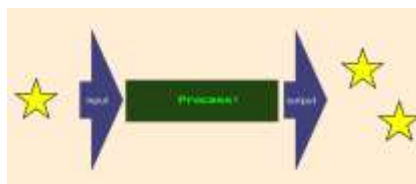
Lesson 3 – How do digital devices help us?

Lesson 4 – How am I connected?

Lesson 5 – How are computers connected?

Lesson 6 – What does our school network look like?

Visual Representations



Concept Links/Prior Knowledge

Reception - To know how to follow simple instructions to control a digital device and how to input a short sequence of instructions to control a device.

Year 1- To know that when a computer is doing something, it is following instructions called 'code'.

Cross-curricular Links

Art- To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials.

Maths- Number and place value- To solve number problems and practical problems involving these ideas.

Sticky Learning

New Knowledge

- Know how digital devices function
- Know how a computer network can be used to share information
- Explain the role of a switch server and wireless access point in a network.

New Skills

- classify input and output devices
- design a digital device
- Demonstrate how information can be passed between devices.
- Recognise the similarities between using digital devices and using non-digital tools.

Vocabulary (incl. equipment)

Previous

Wireless
code
2paint
Keyboard
Mouse
Computer
Desktop

New

Input
Output
Process
Digital device
Connections
Network switch
Touch type

Computer Safety (as relevant to unit)

Children to be aware of what websites they are using and only use appropriate search engines like 'Kiddle'.