

Year 3 – Connecting Computers – you will improve your knowledge and understanding of technology by focusing on digital and non-digital devices, and introducing the concept of computers connected together as a network.

What I may already know?	Vocabulary	
- What technological is around you. - How to use technology sensibly - How to use a mouse and a keyboard. - How IT devices work together - Explain why we use IT	Network Switch	Controls how data moves around the network
	output	Output device such as a screen, printer or speaker
	Digital devices	Devices which run on electricity, have an input, a process and an output.
	router	A router connects a network together and helps move data around so that it is delivered to the correct IP address.
	Wireless access point	This is a device that enables wireless technologies to connect
	Network's infrastructure	This is how computers and digital devices are connected with wires and cables.
	Server	A computer used to store, deliver and send data to the relative computer (correct IP address)
What will I know by the end of the unit?	Input	A device that is used to deliver information into a digital device.
	process	A digital device that uses information, delivered by an input and puts it through a sequence of steps (instructions) to produce an aoutput.
- I can explain that digital devices accept inputs. - I can explain that digital devices produce outputs. - I can follow a process - I can explain how I use digital devices for different activities - I can recognise similarities between using digital devices and using non-digital tools. - I can suggest differences between using digital devices and using non-digital tools - I can recognise different connections - I can explain how messages are passed through multiple connections - I can discuss why we need a network switch - I can recognise that a computer network is made up of a number of devices - I can demonstrate how information can be passed between devices - I can explain the role of a switch, server, and wireless access point in a network - I can identify how devices in a network are connected together - I can identify networked devices around me - I can identify the benefits of computer networks	Relevant Reads www.helloRuby.com 	

1. What does a network switch do?	
2. What does a wireless router do?	
3. What would happen to a digital message if the computer it was meant to be delivered to was switched off?	

Curriculum links

[National curriculum links](#)

Computing

- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

Maths (Lesson 1)

- **Number and place value:** solve number problems and practical problems involving these ideas.

Art (Lesson 3)

- to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]