

<b>Computing</b>	<b>Computing systems and networks – Connecting computers</b>	<b>Year 3</b>	<b>Autumn 1</b>
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## Key Knowledge

To explain how digital devices function	<ul style="list-style-type: none"> <li>I can explain that digital devices accept inputs</li> <li>I can explain that digital devices produce outputs</li> <li>I can follow a process</li> </ul>
To identify input and output devices	<ul style="list-style-type: none"> <li>I can classify input and output devices</li> <li>I can describe a simple process</li> <li>I can design a digital device</li> </ul>
To recognise how digital devices can change the way we work	<ul style="list-style-type: none"> <li>I can explain how I use digital devices for different activities</li> <li>I can recognise similarities between using digital devices and non-digital tools</li> <li>I can suggest differences between using digital devices and non-digital tools</li> </ul>
To explain how a computer network can be used to share information – E-Safety	<ul style="list-style-type: none"> <li>I can discuss why we need a network switch</li> <li>I can explain how messages are passed through multiple connections</li> <li>I can recognise different connections</li> </ul>
To explore how digital devices can be connected	<ul style="list-style-type: none"> <li>I can demonstrate how information can be passed between devices</li> <li>I can explain the role of a switch, server, and wireless access point in a network</li> <li>I can recognise that a computer network is made up of a number of devices</li> </ul>
To recognise the physical components of a network	<ul style="list-style-type: none"> <li>I can identify how devices in a network are connected together</li> <li>I can identify networked devices around me</li> <li>I can identify the benefits of computer networks</li> </ul>

## Statutory requirements

- 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

## Key vocabulary

Spelling	Definition
Digital device	A computer or a device with a computer inside that has been programmed for a specific task
Network	A group of interconnected computing devices
Output	The result of <b>data processed</b> by a <b>computer</b>
Output device	A piece of <b>hardware</b> that is controlled by <b>outputs</b> from a <b>computer</b>
Input device	A piece of <b>hardware</b> used to control, or send <b>data</b> to, a <b>computer</b>
WiFi	A technology that allows devices to wirelessly access a <b>network</b> and transfer <b>data</b>

## Possible experiences

- Make a rules poster for using technology at home – sit down as a family and set some boundaries e.g. time limits, supervised websites
- Play on different games at home and have a look at the parent settings together
- Go for a walk around a town centre and spot all of the technological devices you can see – decide if they are input or output devices
- Locate where your home wireless access point is and discuss how it works

