

SKILLS	Able to follow a process	Classify input and output devices Design a digital device	Recognise similarities between using digital devices and using non-digital tools Suggest differences between using digital devices and using non-digital tools	Recognise different connections	Recognise that a computer network is made up of a number of devices Demonstrate how information can be passed between devices	Identify networked devices around me	Children will be able to compare digital and non-digital devices. Children will be able to recognise and locate a school's server, switch, and wireless access points.
KNOWLEDGE	Explain that digital devices accept inputs Explain that digital devices produce outputs	Describe a simple process	Explain how to use digital devices for different activities	Explain how messages are passed through multiple connections Discuss why we need a network switch	Explain the role of a switch, server, and wireless access point in a network	Understand how devices in a network are connected together Identify the benefits of computer networks	Children will develop an understanding of digital devices and its infrastructure. Children will understand the benefits of connecting devices.
LESSON LINK	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers	..\\..\\..\\Hubs\\Computing\\NCCE Teaching\\Year 3\\1 - Computing systems and networks – Connecting computers
PROGRESSIVE VOCABULARY	technology	digital device, input, process, output	program, digital, non-digital	connection, network, network switch	server, wireless access point	network cables, network sockets	Children will be able to understand, articulate and use the vocabulary
CURRICULUM EXPERIENCES						Network tour Q&A with Mr Horsburgh	

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">END POINT</p>	<p>This lesson introduces the concepts of input, process, and output. These concepts are fundamental to all digital devices.</p>	<p>In Lesson 1, children looked at the relationship between inputs, processes, and outputs. In this lesson, they will develop that knowledge and apply it to devices and parts of devices that they will be familiar with from their everyday surroundings.</p>	<p>In this lesson, children will apply their learning from Lessons 1 and 2 by using programs in conjunction with inputs and outputs on a digital device. They will create two pieces of work with the same focus, using digital devices to create one piece of work, and non-digital tools to create the other. Children will then compare and contrast the two approaches.</p>	<p>Lesson 3 focused on the benefits of digital devices compared with non-digital tools. Many digital devices are now connected to other digital devices, eg computers through wires, tablets through Wi-Fi, and smartphones through mobile phone networks. The benefit of connecting digital devices is that it allows information to be shared between users and systems.</p> <p>This lesson introduces the concept of connections and moving information between connected devices. Children will learn to explain how and why computers are joined together to form networks.</p>	<p>This lesson introduces key network components, including a server and wireless access points. Children will examine each device's functionality and look at the benefits of networking computers.</p>	<p>In this lesson, children will further develop their understanding of computer networks. They will see examples of network infrastructure in a real-world setting and relate them to the activities in Lesson 5.</p>	
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