

BRUNSHAW PRIMARY SCHOOL



Inspiring children to be resilient and aspirational learners, within a positive and considerate community

Subject: Computing

Year group: 3 Term: Autumn 1

Title: Connecting Computers

What should I already know?

- Computers used in school include desktops, tablets, printers, cameras and interactive whiteboards
- A computer is a part of information technology
- IT can be used for a wide range of purposes, including creating, sending and storing information, as well as for communication
- Rules should be followed when using IT to protect ourselves and others
- IT can often perform tasks faster, easier and more accurately than people can
- We need to consider our physical and mental health when using technology and ensure we are mindful about how much time we spend using IT

Facts I will learn

- An input is data entered into a computer
- A process acts on the input
- An output is produced by the process
- Changing the process can affect the output
- A digital device is made up of several parts
- Computers can be connected to each other
- Computer systems can change the way that we work, for example speed and location
- Devices in a network are connected to each other
- A network is made up of a number of components
- In a network, information is passed through multiple connections
- The benefits of computer networks include ease of information sharing and communication

Key questions

- How does a digital device work?
- What parts make up a digital device?
- How do digital devices help us?
- How am I connected?
- How are computers connected?
- What does our school network look like?

Key Skills

- To identify input and output devices

Experiences that school will provide

- Opportunities to use a range of hardware and software

Key vocab

Definition

- To explain that a computer system accepts an input and processes it to produce an output - To explain the role of a switch, server and wireless access point in a network - To explain how a computer network can be used to share information - To identify network devices around me - To explain how networks can be connected to other networks	A guide to our school’s network and main components by out IT technician	<table><tr><td>Digital device</td><td>An electronic device that can receive, store, process or send digital information</td></tr><tr><td>Input</td><td>Entering data into a computer. Input devices include keyboards and touch screens</td></tr><tr><td>Process</td><td>A program that is running on a computer to make the output meaningful</td></tr><tr><td>Output</td><td>The data that comes out of a computer. Output devices include a speaker and printer</td></tr><tr><td>Program</td><td>A set of commands run by a computer to complete a task</td></tr><tr><td>Digital</td><td>Storing, using or sending information electronically in the form of numbers</td></tr><tr><td>Non-digital</td><td>Anything that doesn’t involve digital technology or electronics</td></tr><tr><td>Network</td><td>A group of computers connected to each other</td></tr><tr><td>Network switch</td><td>Allows devices to communicate and share information with one another</td></tr><tr><td>Server</td><td>Part of a computer network that provides data, services or programs to the computers in the network</td></tr><tr><td>Wireless access point</td><td>A device that allows wireless devices to connect to a network</td></tr></table>	Digital device	An electronic device that can receive, store, process or send digital information	Input	Entering data into a computer. Input devices include keyboards and touch screens	Process	A program that is running on a computer to make the output meaningful	Output	The data that comes out of a computer. Output devices include a speaker and printer	Program	A set of commands run by a computer to complete a task	Digital	Storing, using or sending information electronically in the form of numbers	Non-digital	Anything that doesn’t involve digital technology or electronics	Network	A group of computers connected to each other	Network switch	Allows devices to communicate and share information with one another	Server	Part of a computer network that provides data, services or programs to the computers in the network	Wireless access point	A device that allows wireless devices to connect to a network
Digital device	An electronic device that can receive, store, process or send digital information																							
Input	Entering data into a computer. Input devices include keyboards and touch screens																							
Process	A program that is running on a computer to make the output meaningful																							
Output	The data that comes out of a computer. Output devices include a speaker and printer																							
Program	A set of commands run by a computer to complete a task																							
Digital	Storing, using or sending information electronically in the form of numbers																							
Non-digital	Anything that doesn’t involve digital technology or electronics																							
Network	A group of computers connected to each other																							
Network switch	Allows devices to communicate and share information with one another																							
Server	Part of a computer network that provides data, services or programs to the computers in the network																							
Wireless access point	A device that allows wireless devices to connect to a network																							
Web links What is a computer network? - BBC Bitesize Information about computer networks What are input and output devices? - BBC Bitesize Information about input and output devices	Experiences that could be provided at home Talk to your child about the network used at home. Which devices are connected wirelessly to the internet? Do you have any wired devices in the home? Which devices are inputs and outputs?																							