

Autumn 1 – Understanding Technology – Computer Systems and Networks – Connecting Computers

Knowledge <i>I know...</i>	Skills <i>I can...</i>	Links back to <i>I remember...</i>
<ul style="list-style-type: none"> • Digital devices must have an input, a process and an output. • Digital devices accept inputs and produce outputs. • The difference between an input and output device and can name examples. • How digital devices can change the way we work. • A computer network is a group of computing devices that exchange data and resources with each other. 	<ul style="list-style-type: none"> • Follow a process. • Classify input and output devices. • Describe a simple process. • Design a digital device. • Explain how I use digital devices for different activities. • Recognise similarities between using digital devices and non digital tools. • Suggest difference between using digital devices and non digital tools. • Recognise different connections. • Explain how messages are passed through multiple connections. • Discuss why we need a network switch. • Explain the role of network devices such as a switch server and a wireless access point. • Identify how devices in a network are connected together. • Identify devices around me and the benefits of computer networks. 	<ul style="list-style-type: none"> • That photos can be taken on a range of technological devices. • Common uses of technological devices in and beyond school. • You have choices when taking photos. (eg to take a landscape or portrait photo) • How a photo can be improved. • How to find out the best lighting levels for producing good quality photographs. • Photos can be changed and that not all images are real. • Using an iPad to take a photo. • Composing and capturing good photos. • Making suggestions on how to improve my photo. • Using tools to change an image. • Saying what the best lighting source is for a photo I retake. • Using the autofocus to make an object in the photo stand out. • Identifying someone who can help me, if something happens online without my consent.

Vocabulary:

Computer network: a group of connected computing devices.
Input device: putting data into a computer system.
Output device: takes the data from a device and converts it so humans can experience it.
Connection: linking and joining devices.
Digital device: computer or a device with a computer inside that has been programmed for a specific task.
Network socket: a socket allowing network.
Switch: a device that enables multiple devices on a network to be connected together.
Server: a computer that manages the network and stores files.
Wireless access point: a device connected to a wider network which sends and receives wireless signals for devices with WIFI connectivity.

Images:

