River Bank Primary Knowledge Organiser	Year 3	Autumn Term 1	We are networkers

What we will learn

Information technology (I.T.) includes computers and things that work with computers.
Digital devices are things made for a particular purpose, that use processing.
Digital devices have an **input**, **process** and **output** (IPO).

E-safety:

We teach our children to be SMART online.

SMART
Stay Safe | Don't Meet Up | Accepting Files | Reliable? | Tell Someone

Digital Devices – Input, Process Output (IPO)

A **device** is something that has been made for a particular purpose (it has a special use). **Digital devices** use processing (have a process). There is more than just an on-off function. Digital devices have an **input, process, output** (IPO)

Input: Something that sends a message to the device. E.g. You press a button on the keyboard.	Process: The device acts on the message. E.g. The computer follows a program that tells it what to do when the keyboard is pressed.	Output: Something that is sent out by the device e.g. The letter that you have typed on the screen.

Networks and Network Devices

Connections and Networks
In Computing, a **connection** describes a link between the computer and something else.
A computer may be connected to the internet through wires, a mobile data system, or **Wi-Fi**.
A computer network is a set of connections that joins computers together.
The computers in the network can send and receive information to one another.
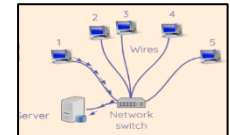
Network Devices
Network switch: a device that helps different devices on a network to be connected with each other.
Server: a computer that manages the network and stores files
Wireless access point (WAP): a device, connected to a wired network, that sends and receives wireless signals to and from devices.

Why Networks Are Useful

Computer networks allow us to send and receive information between computers that are in different places.
Networks can help us to communicate quickly and easily. Networks can also join **computers to shared devices**, like scanners and printers.
The internet is a **global network** of computers. Imagine how different life would be without the internet!