



Year Five and Six Programme B

Topic – Networks (Computer Science)

Term: Summer 1

Key Learning

To learn about what the Internet consists of.
To find out what a LAN and a WAN are.
To find out how the Internet is accessed in school.
To research and find out about the age of the Internet.
To think about what the future might hold.

Key Vocabulary

Internet - A global computer network providing a variety of information and communication facilities consisting of interconnected networks using standardized communication protocols.

World Wide Web - An information system on the Internet which allows documents to be connected to other documents by hypertext links, enabling the user to search for information by moving from one document to another.

Network - Several interconnected computers, machines, or operations.

Local area network (LAN) - A computer network that links devices within a building or group of adjacent buildings, especially one with a radius of less than 1 km.

Wide area network (WAN) - A computer network in which the computers connected may be far apart, generally having a radius of more than 1 km.

Router - A device which forwards data packets to the appropriate parts of a computer network.

Network cables - Used to connect and transfer data and information between computers and routers.

Wireless – The ability to transmit data from one device to another without using wires.

Key Skills

Computer Science

- ▶ Be confident in their knowledge of inputs and outputs and plan and write programs to solve tasks to control external devices such as sensors and motors.
- ▶ Know how different computer networks work, including the roles of the components and the opportunities and benefits that they offer for communication and collaboration.
- ▶ Understand the difference between the internet and internet services.

Learning Links

Y4

Understanding of the 2- way communication technologies using algorithms that run of the hardware connections
Understanding of the hardware components that make devices function including those for networking