

Medium Term Plan: Supporting Implementation of LTP/Progression Grid

Subject: Computing – Autumn 1

Year: Year 3 - Networks

NC/PoS:

- To understand that a network is a group of interconnected devices.
- To know the components that make up a network (Wireless access point/WAP, Network switch, Router, Server and devices).
- To know that a server is central to a network and responds to requests made.
- To know that the internet connects all the networks around the world.
- To know that a router connects us to the internet.
- To know what a packet is and why it is important for website data transfer.

Prior Learning (what pupils already know and can do)

- Name some computer peripherals and their functions.
- Recognise that buttons cause effects.
- Explain that technology follows instructions.
- Recognise different forms of technology.
- Design an invention which includes inputs and outputs.
- Explain the role of computers in the world around them.

End Points (what pupils MUST know and remember)

- Recognise that a network is two or more devices connected and its purpose.
- Identify key components that make up the school's network.
- Explain the difference between wired and wireless connections.
- Recognise that files are saved on a server.
- Understand the role of the server in a network when requesting a website.
- Identify parts of a website's journey to reach your computer.
- Recognise that routers connect to send information.
- Understand that data is broken into packets.

Key Vocabulary

- device
- file
- internet
- network
- network switch
- packet data
- router
- server
- the cloud
- user
- wi-fi
- wired
- wireless
- wireless access point

Session 1 – To recognise what a network is.

What is a network?

Learning what is meant by the terms 'network', 'device' and 'wireless', which are essential to understanding what a network is and its purpose.

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Session 2 - To demonstrate how a website works.

How a website works.

Learning how to share information and images from a website.

Session 3 - To identify the role of packet data.

What is packet data?

Learning about the role of packet data.

Future learning this content supports:

Computer systems and networks 2 – emailing.