Over Hall Community School	Year: 6	Strand: Computing— Networks

What should I already know?

- Developing ideas about the concept of technology that we are surrounded by and its purpose · Understanding that many devices use computational technology

- Exploration of what the Internet is and how devices allow connections to access functions and the World Wide Web · Searching and sharing

- Using device functions for 2-way communication via the World Wide Web

- 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

- Understand current and future uses of artificial intelligence · Develop creative AI use in music and ar

- functions for 2-way communication via the World Wide Web

- Children develop an understanding of the communication capabilities of devices · Use of 2Dos · Saving, opening and editing work · Sharing work · Mouse, keyboard and device skills

- Understanding of the connections and communications between devices and device capabilities.

What will I know by the end of the unit?

What do I about the Internet?
- You will know the difference between the World Wide Web and the internet

How do we access the internet in school.?
- You will know about their school network. And be able to find the LAN and WAN.

What is the age of the internet?
- You will research and find out about Tim Berners-Lee. · You will have considered some of the major changes in technology which have taken place during their lifetime and the lifetime of their teacher/another adult

Key Vocabulary

- **Hub\Switch** The connection point for networks where data packets from many locations converge and are then sent out to different devices.
- **Network** Several interconnected computers, machines, or operations. .
- **Wide area network (WAN)** A collection of local-area networks (LANs) or other networks that communicate with one another over a large physical area or even globally. .
- **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.
- **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. .
- **Router** A device which forwards data packets to the appropriate parts of a computer network.
- **Wi-Fi** A facility allowing computers, smartphones, or other devices to connect to the Internet or communicate with one another wirelessly within a particular area.

Key Questions

- **What is the difference between the Internet and the World Wide Web?**

The Internet is a global network of networks while the Web, also referred formally as the World Wide Web (www) is collection of information which is accessed via the Internet.

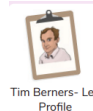- **What is the difference between a LAN and a WAN?**

Both are networks that connect computers together. A LAN (Local Area Network) is normally for computers connected less than 1KM distance, whilst a WAN (Wide Area Network) extends over a large geographical area.

- **Who is Tim Berners-Lee?**

Tim Berners-Lee is the inventor of the World Wide Web. The WWW is the system that delivers webpages over the internet.

Purple Mash Resources

- Time Berners-Lee Profile and Communication Questionnaire

Tim Berners- Lee Profile

Communication Questionnaire

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