

Computing 24-25

Year 4- Computing systems and networks- the internet

Remember when:

Year 3- Connecting computers, Year 2- IT around us, Year 1- Technology

Key vocabulary

By the end of the unit children must be able to:

- I can describe the internet as a network of networks
- I can describe networked devices and how they connect
- I can explain that the internet is used to provide many services
- I can recognise that the World Wide Web contains websites and web pages
- I can describe where websites are stored when uploaded to the WWW
- I can explain why some information I find online may not be honest, accurate, or legal

Internet, network, router, network security, Network switch, server, wireless access point (WAP), router, Www world wide web, Website, web page, web address, web browser

National curriculum:

- Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information
- Use technology safely, respectfully, and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Features/ overview

Learners will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure. They will learn that the World Wide Web is part of the internet, and will be given opportunities to explore the World Wide Web for themselves in order to learn about who owns content and what they can access, add, and create. Finally, they will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.

Title / Focus

Lesson outline

Lesson 1 Connecting networks
LO- To describe how networks physically connect to other networks

SK- I can describe the internet as a network of networks

Learners will explore how a network can share messages with another network to form the internet. They will consider some of the network devices involved in this, such as routers, and will also discuss what should be kept in and out of a network to keep safe.

Lesson 2 What is the internet made of?
LO- To recognise how networked devices make up the internet

SK- I can describe networked devices and how they connect
-I can explain that the internet is used to provide many services

Learners will describe the parts of a network and how they connect to each other to form the internet. They will use this understanding to help explain how the internet lets us view the World Wide Web and recognise that the World Wide Web is part of the internet which contains websites and web pages.

Lesson 3 Sharing information
LO- To outline how websites can be shared via the World Wide Web (WWW)

SK- I can recognise that the World Wide Web contains websites and web pages

Learners will explore what can be shared on the World Wide Web and where websites are stored. They will also explore how the World Wide Web can be accessed on a variety of devices.

Lesson 4 What is a website?
LO- To describe how content can be added and accessed on the World Wide Web (WWW)

SK- I can recognise that I can add content to the WWW

Learners will analyse a website and identify the key parts. They will then consider what content can be added to websites and what factors they should consider before adding content to a website. Finally, they will use a website which enables them to create their own content online.

Lesson 5- Can I believe what I read?
LO- To evaluate the consequences of unreliable content

SK- I can explain why some information I find online may not be honest, accurate, or legal

Learners will gain an appreciation of the fact that not everything they see on the internet is true, honest, or accurate. They will review images and decide whether or not they are real, before looking at why web searches can return ambiguous (and sometimes misleading) results. Finally, learners will complete a practical activity, demonstrating how quickly information can spread beyond their control.

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