

Subject: Computing

Year group: 4

Term: Autumn Term

Unit name: The Internet (short unit)

**Vocabulary**

Hacker	Networks	PEGI
Positive online communication	World Wide Web	Age restrictions
Netiquette	Intranet	Social network
Filters	Internet	IP address
Page ranking devices	Reliability	Router
Cloud computing	Owners	Server
Online persona	Reputation	Protocol
	Networks	Packets

**Big ideas:**

To learn that the World Wide Web is part of the internet and be given opportunities to explore the World Wide Web for themselves to learn about who owns content and what they can access, add, and create.

To evaluate online content to decide how honest, accurate, or reliable it is.

To appreciate the internet as a network of networks.

**Progression of skills :**

Learners will :

Appreciate the internet as a network of networks which need to be kept secure;

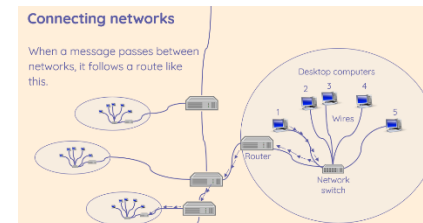
Learn that the World Wide Web is part of the internet;

Explore the World Wide Web for themselves to learn about who owns content and what they can access, add, and create;

Evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.

**Prior learning: Year 3 Connecting Computers**

In this unit they focus on inputs, processes, and outputs. Then they compare digital and non-digital devices before being introduced to computer networks, including devices that make up a network's infrastructure, such as wireless access points and switches. The unit concludes with learners discovering the benefits of connecting devices in a network.



NCCE unit can be used as a resource.

BBC resource:

<https://www.bbc.co.uk/bitesize/topics/z7wtb9q/articles/z3tbgk7>



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**Future learning:**

**Year 5 Sharing Information**

In Year 5, they will continue to develop their knowledge and understanding of computing systems and online collaborative working within the communications Unit. Learners will explore how information is transferred between systems and devices. They will explain the input, output, and process aspects of a variety of different real-world systems. Learners will also take part in a collaborative online project with other class members and develop their skills in working together online.

**National Curriculum links :**

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

**Key learning assessment statements :**

To explore how a network can share messages with another network to form the internet. They will describe how the internet is a network of networks and why a network needs protecting.

To describe parts of a network and how they connect to each other to form the internet. They will use this 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.

To learn about who owns the content of a website, where websites are stored and use an existing website to add content of their own.

To evaluate the consequences of unreliable content and recognise that not everything on the World Wide Web is honest, accurate or legal. They will review images and decide whether they real or not.

**Spiritual Development**

Computing allows children to reflect on the awe and wonder of the achievements and possibilities of ICT in a modern world. They think about the limitless opportunities that could be achieved thus promoting their sense of self and motivation. Exodus 15:11: And amazement seized them all, and they glorified God and were filled with awe, saying, "We have seen extraordinary things today."