

YEAR 4

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Computing systems and networks. -	The three Prime ELGS of Communication and Language, PSED and Physical Development provide the foundations of which all other learning is built upon. No Specific ELG links.	To become familiar with different components of a computer , linking technology to their everyday lives.	To develop understanding of IT , linking technology to the wider world and the importance of using it responsibly .	To develop understanding of digital and non-digital devices with a focus on inputs, processes and outputs . To be introduced to computer networks .	To apply knowledge of networks to the internet and explore the World Wide Web, ownership, content, access and creation .	To develop understanding of computer systems and learn how information is transferred between systems . To participate in a collaborative online project .	To learn about the World Wide Web as a communication tool . To explore how search engines , work and what influences searching.

COMPOSITES

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.

COMPONENTS

	1	2	3	4	5	6	End Point
	Can I describe how networks physically connect to other networks?	How can I recognise how networked devices make up the internet?	Can I outline how websites can be shared via the World Wide Web (WWW)?	How can I describe how content can be added and accessed on the World Wide Web (WWW)?	Can I recognise how the content of the WWW is created by people?	Can I evaluate the consequences of unreliable content?	This unit progresses children knowledge and understanding of networks in Year 3. In Year 5, they will continue to develop their knowledge and understanding of computing systems and online collaborative working
CONCEPTS Link to concept map	Computing systems and networks Information Technology	Computing systems and networks Information Technology	Computing systems and networks Information Technology	Computing systems and networks Information Technology	Computing systems and networks Information Technology	Computing systems and networks Information Technology Computer Science	Computing systems and networks Information Technology Computer Science

	Computer Science Digital Literacy	Computer Science Digital Literacy	Computer Science Digital Literacy	Computer Science Digital Literacy	Computer Science Digital Literacy	Digital Literacy	Digital Literacy
SKILLS	I can demonstrate how information is shared across the internet I can discuss why a network needs protecting	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 explain the types of media that can be shared on the WWW	I can recognise that I can add content to the WWW I can explain that internet services can be used to create content online	I can suggest who owns the content on websites I can explain that there are rules to protect content	I can explain that not everything on the World Wide Web is true I can explain why some information I find online may not be honest, accurate, or legal I can explain why I need to think carefully before I share or reshare content	Children 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. They will evaluate online content to decide how honest, accurate, or reliable it is, and understand the consequences of false information.
KNOWLEDGE	I can describe the internet as a network of networks	I can describe networked devices and how they connect	I can describe where websites are stored when uploaded to the WWW I can describe how to access websites on the WWW	I know that media can be found on websites	I know that websites and their content are created by people	I know that not everything found on the World Wide Web is true	Children will apply their knowledge and understanding of networks, to appreciate the internet as a network of networks which need to be kept secure.
LESSON LINK	Computing systems and networks – The Internet	Computing systems and networks – The Internet	Computing systems and networks – The Internet	Computing systems and networks – The Internet	Computing systems and networks – The Internet	Computing systems and networks – The Internet	Computing systems and networks – The Internet
PROGRESSIVE VOCABULARY	internet, network, router, network security	network switch, server, wireless access point (wap), router	website, web page, web address, router, routing, web browser	World Wide Web, internet, content, website, web page, links, files	website, use, content, download, sharing, ownership, permission	Information, sharing, accurate, honest, content, adverts	Children will be able to understand, articulate and use the vocabulary

CURRICULUM EXPERIENCES					Children will have the opportunity to practice the concepts of sharing and ownership to real-world concepts.		
END POINT	Children 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.	Children 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.	Children 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.	Children 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.	Children will explore who owns the content on the World Wide Web (or 'web' for short). They will explore a variety of websites and will investigate what they can and cannot do with the content on them. They will also relate this to principles of ownership and sharing in the real world.	Children 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.	