

Year 4 Computing – Computing systems and networks – The internet

Vocabulary			Knowledge
Internet	A global network of computers that are connected and can share information		<u>What is the Internet?</u> The internet is a global network of computers that are connected so they can share information. It allows people all around the world to communicate, learn, and access websites and services. <u>Networks and devices</u> A network is a group of computers and devices that are linked together. Servers store information and send it to other computers, called clients, when needed. Networks can be connected with cables (Ethernet) or wirelessly (Wi-Fi). <u>Websites and web pages</u> A website is a collection of web pages under the same name or address. Each web page has information like text, images, or videos. We use a browser (like Chrome or Firefox) to look at web pages and visit different websites. <u>Finding information online</u> We can use a search engine to find information on the internet. A URL is the address that tells the browser which page to visit. Hyperlinks are links you can click to go to another page or website quickly. <u>Sending and receiving data</u> Information sent over the internet is called data. You can download data to your computer or upload it to share with others. Many websites also use the cloud. <u>Staying safe online</u> A firewall helps protect computers and networks from unwanted access. Following rules and using safe websites keeps information secure. Internet Service Providers (ISPs) give people access to the internet so they can browse, search, and communicate safely.
Network	A group of computers and devices that are connected to share data		
Server	A computer that stores information and sends it to other computers on the same network		
Client	A computer or device that requests information from a server		
Website	A collection of pages on the internet, under the same name or address		
Web page	A single page of information on a website		
Browser	A program used to view web pages		
URL	The web address used to find a specific web page		
Hyperlink	A link you can click to go to another web page		
Cloud	Online storage where information is kept on internet servers		

Quizzing		Quiz at home
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO. Quiz them using the vocabulary and knowledge section or the quiz questions. • Can they beat your score? • Can they score more than 5? 10? • Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.
What is a group of computers that are connected called?	Wi-Fi	
What does a firewall do?	Client	
What are companies that provide access to the internet called?	Search engine	
What is the main purpose of the internet?	The cloud	
What is the program used to view web pages called?	Network	
Which part of the internet helps find specific websites quickly?	Protects computers from unwanted access	
What is a computer that requests information from a server called?	ISPs	• Can they score more than 5? 10? • Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.
What is one type of network connection?	To connect computers so they can share information	
What is an example of online storage?	Browser	
BIG Questions		Beat the adult
1. Why do we need the internet to share information? 2. Why do we need servers to store websites and data? 3. What would happen if the internet stopped working for a day? 4. How does a search engine help us find information quickly? 5. How can you tell if a website is safe to use?		Your teacher can give 10 facts in 1 minute about this topic. How many can you give to your partner? 
Word scramble	Creative Tasks	Challenge
Unscramble the key vocabulary from this topic below. You can create your own at the bottom	1. Sketch a diagram showing how devices in your home connect to the internet (router, Wi-Fi, devices). 2. Design a colourful poster with tips for staying safe online. 3. Imagine what the internet will look like in 50 years and draw it. Add futuristic devices and features.	<u>Search Engine Challenge</u> Use a search engine to find information about a topic of your choice. Identify the first three results and explain why they might be useful or reliable
entrntei		
rweoknt		
erserv		
iletcn		
bswitee		
owrebsr		
klnhiepyr		
doucl		

Enquiry

Fill in the gaps using the given words

1. A group of computers connected together to share information is called a _____.
2. A single page of information on a website is called a _____.
3. A web page loads slowly because the _____ sending the data might be busy.

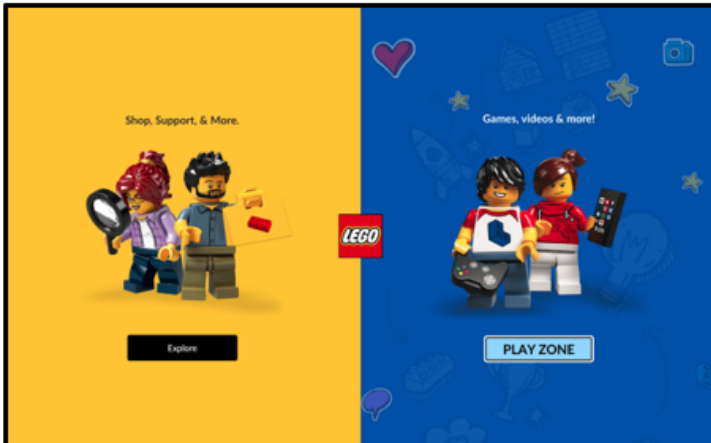
Server

Network

Web page

Content

Official Lego website
www.lego.com/en-gb



1. Am I allowed to view this content?

Yes

No

2. Am I allowed to download this content?

Yes

No

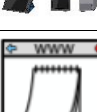
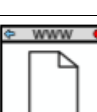
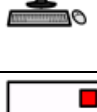
3. Am I allowed to use this content as my own?

Yes

No

4. Who owns this content?

Knowledge	Knowledge
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Write the definition for each of the following words			Write the vocabulary word for each definition		
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