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Talk about network range and speeds

Types of network

speaking:

H.W.

- What computer networks do you use in your work or studies?
- What do you use the networks for?
- How do you access the networks?

Listening:



H.W.

Agatha is the owner of a small flower shop. Katharina is a network architect. Agatha needs some advice from Katharina about a network solution for her company.

Listen and answer these equations:

- 1 What does Agatha think she should do?
- 2 What does Katharina recommend?
- 3 What does Katharina say she will do?
- 4 When does Agatha want the network to be ready?



equipment Internet LAN recommend 5 remote should WAN VPN

H.W.

Reading

Dear Agatha		
Following our meetin	g last week, please find my reco	ommendations for your business.
think you (1)	set up a LAN, or Local Are	ea Network, and a WAN, or Wide
Area Network, for yo	ur needs. A (2) conr	nects devices over a small area,
or example your apa	artment and the shop. In addition	n, you should connect office
(3), sucl	n as the printer, scanner and fax	machine, to your LAN because
ou can then share t	hese devices between users.	New our Whates
'd recommend that w	we connect the LAN to a (4)	so you can link to the
nternet and sell you	r products. In addition, I'd (5)	we set up a Virtual
Private Network so the when you travel.	hat you have a (6) a	ccess to your company's LAN,
The same of the sa	rivate network that uses a public	c network, usually the
	onnect remote sites or users tog	
	to discuss these recommendation	
	nd deliver a presentation in	
Katharina		

Giving reasons

Language

Language

Giving reasons

We use **because** to say something was the reason for an action or situation. (We can start a sentence with **because**.) You should connect office equipment to the LAN **because** you can then share devices between users.

I'd recommend a Dell computer because it is cheaper.

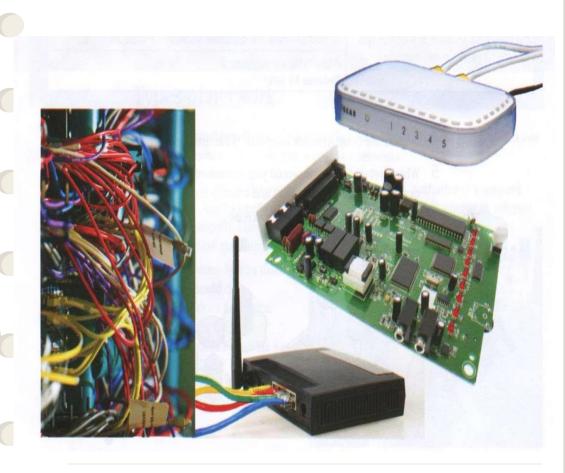
Why do you use encryption?

Because it's safer.

Networking hardware

Speaking

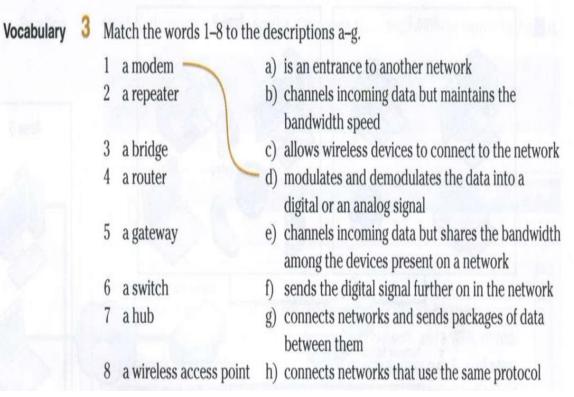
-Which of the items below do you know? What are they? What do they do?



Vocabulary

-Match the words 1-8 to the descriptions a-h.





CD 35 IT1 Listening: Listen and repeat these words

- 1 modem
- 2 repeater
- 3 bridge
- 4 router
- 5 gateway
- 6 switch
- 7 hub
- 8 wireless
- 9 access point
- 10 network connectors
- 11 network interface card

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Listening:



Listen and complete this dialogue with the words in the box. H.W.

speed	should user What		
Boris:	I have a problem with the network download (1) What can you suggest?		
Ahsan:	Why don't you (2) the hub?		
Boris:	I don't think that will work. The hub is fine.		
Ahsan:	OK. How (3) adding a repeater then?		
Boris:	Hmm, I'm not sure it will help. It's not a (4) with the signal strength.		
Ahsan:	OK, then you should check the cables and network (5) to make sure that they are compatible with your network.		
Boris:	(6) about changing the modem?		
Ahsan:	I don't think it's (7) I think it's a problem with the bridge, switch or the router. You (8) look at the specifications.		
Boris:	OK, I will. Thanks for your help.		
Ahsan:	Why don't you check (9) recommendations on the Internet as well?		
Boris:	Good idea. I'll do that.		

Making suggestions

Language

Language

Making suggestions

We can make suggestions with:

Why don't we/you + infinitive without to.	Why don't you call the IT help desk? That's a good idea.	
What about + -ing	What about buying a new router? I don't think that will work.	
How about + -ing	How about reading the instructions first? I'll do that.	

Listening:



Listen and repeat these suggestions H.W.

- 1. Why don't you change the modem?
- 2. How about connecting a repeater?
- 3. What about looking on the website?





Complete these sentences with the words in the box.

between on over to with

- 1 Is this software compatible _____ this computer?
- 2 A LAN connects devices _____ a small area.
- 3 Is the computer connected _____ the modem?
- 4 The LAN allows you to share information _____ users.
- 5 Why don't you look _____ the Internet?

words and phrases to learn

Maybe I didn't make my	ربما لم أجعل المعنى واضحًا
meaning clear. (You don't	
understand انت لاتفهم)	
Cut it out	كف عن ذلك
Hold your nerve	تمالك اعصابك
Don't distract me	لاتشتت انتباهي (لاتلهيني)
I'm speechless	انا عاجز عن الكلام

Talking about the past

Reading

How much do you know about the history of about the Can you networking? Can you match these events 1-4 to the dates a-d?

H.W.

- 1. The creation of the Word Wide web
- 2. The start of Facebook
- 3. The launch of Twitter
- 4. The beginning of Myspace

a-2006, b- 1990, c- 2003, d-2004

Speaking

H.W.

What social networks do you use? How much time do you spend on them?

Example: I use..... I spend about....

H.W.

 When did Karl go to university?

Speaking

- 2. When did he leave university?
- 3. What did he do after university?
- 4. Where did Karl go in 2006?
- 5. When did he go to Seattle?

Read this text about Karl's IT career up until now and answer these questions.

'I left school in Cambridge in the UK at the age of 18 and went straight to the University of Bristol to study computing in 2000. I graduated in 2004 and decided to travel around the world for a year.

In 2006 I got a job back in Cambridge with the software company Arm. I stayed with Arm for two years and then went to work for Microsoft in Seattle in the USA. This is where I am now and I love it!'



Writing H.W.

- Write three or four sentences about your own computing education and/or work up until now. Use the text to help you.
- 2. Ask and answer questions about your education and/or work.

Read this text about Karl's IT career up until now and answer these questions.

'I left school in Cambridge in the UK at the age of 18 and went straight to the University of Bristol to study computing in 2000. I graduated in 2004 and decided to travel around the world for a year.

In 2006 I got a job back in Cambridge with the software company Arm. I stayed with Arm for two years and then went to work for Microsoft in Seattle in the USA. This is where I am now and I love it!'



Past simple

Language

We use the past simple tense to talk about finished actions in the past.	When did I/she/he/we/they create the network? She created the network in December 2008. I started the network last year.	
Time expressions	I looked at that yesterday. I had broadband connected three daysla month/two years ago. I used that system last week/year/month. I started that user group on Monday/in June/in 2001.	

Listening:

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Listen and repeat these sentences

H.W.

- 1. When did they start work?
- 2. They installed the computers yesterday.
- 3. We didn't work last week.
- 4. She went to the office on Sunday.
- 5. Did you finish the report?

Speaking

H.W.

Example:

A: what did you do last week?

B: I worked on the new network.

 Practise asking and answering questions about what you did yesterday or last week in your work or studies.

2. Talk about what you do on your day off?

Example:

A) What did you do on your day off?

B) I went to the gym.

Past simple (2)

Language

Regular past tense endings	look	looked
	use	used
	install	installed
	connect	connected
	work	worked
Irregular past tense endings	set up	set up
	go	went
	see	saw
	do	did
	buy	bought
	be	was

Network range and speed



Listen and complete this dialogue between Karoline and Sam.

Karoline:	How do you describe network speed?			
Sam:	In bits, kilobits, megabits and gigabits. They describe network speed. For example, dial-up connections allow (1) kilobits			
	per second and DSL from (2) kilobits per second to (3) megabits per second.			
Karoline:	e: OK. I've got that. What about the range?			
Sam:	Range is the distance of network coverage, so distance units			
	represent network range. Most countries use metric but some use feet as units of measurement. Metres or feet usually describe the range of a network. Home networking routers support a range up to			
Karoline:	(4) feet or (5) metres indoors and (6) feet or (7) metres outdoors. Thanks.			



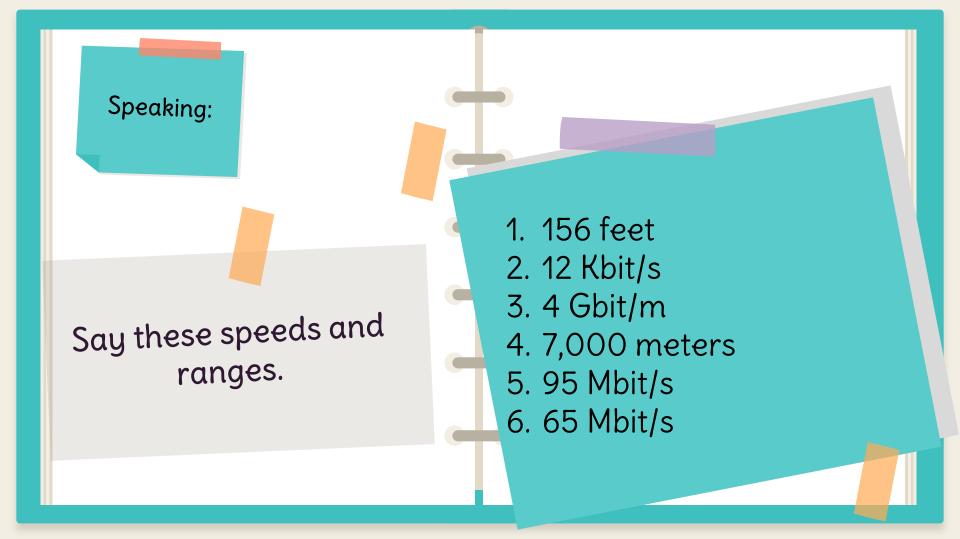
Listening:



H.W.

Listen and repeat these speeds and ranges.

- 1. 77 Kilobits per second
- 2. 5 megabits a second
- 3. 2 gigabits per minute
- 4. 250 meters
- 5. 40 feet





H.W.

Read these texts and answer these questions.

Range

Wireless networks have limited range. Network range depends on the type of 802.11 protocol, strength of the device transmitter and the architecture of the surrounding area. Some structures, such as walls and metal frames, reduce the range of a WLAN by 25%. However, users can extend the range of a WLAN. Repeaters forward the wireless signal to access points or routers and increase the range of a network.

Speed

Bandwidth and latency are the measures of computer network speed, or data transfer rate. Bandwidth is the maximum throughput of data in bits per second.

Some modems support 100 Gbit/s but speed depends on the hardware and software used. Latency is the delay that network creates during the transfer data. Users have no, or very little, control over bandwidth and latency.

- 1 How many things does network range depend on?
- 2 What can reduce network range?
- 3 What can improve network range?
- 4 What two things affect speed?

