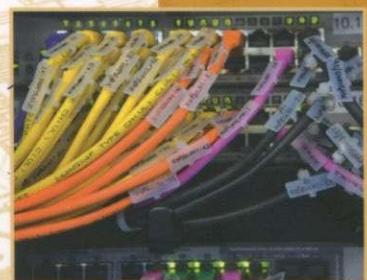
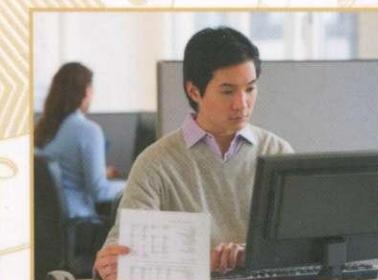


English for Information Technology

1

Vocational English
Course Book



PEARSON
Longman

Maja Olejniczak
Series editor David Bonamy



CD-ROM

Contents

	Function	Language	Vocabulary
Unit 1 Working in the IT industry	Meeting people p.4	Introducing yourself and others Present tense of <i>be</i> <i>I'm Natasha, nice to meet you.</i>	Introductions Personal questions
	Jobs in IT p.6	Describing your job Present Simple <i>What do you do?</i> <i>I am a programmer.</i>	Jobs
	Schedules p.8	Describing your daily routine and times Schedules <i>What time does it start?</i>	Routines Times
	Spelling p.10	Using the alphabet <i>What does WWW stand for?</i> <i>How do you spell that?</i>	IT acronyms The alphabet
Business matters p.11			
Unit 2 Computer systems	Computer hardware p.12	Describing computer hardware Comparatives <i>That monitor is bigger than mine.</i>	Computer hardware
	Computer software p.14	Describing computer software Superlatives <i>That software is the easiest to use.</i> Present tense of <i>have(got)</i> <i>We've got the best software.</i>	Computer software
	Working with computers p.16	Describing tasks Present continuous <i>Are you installing it now?</i>	Computer tasks
	Computer usage p.18	Understanding computer usage <i>must, mustn't, can, can't,</i> <i>don't have to</i> <i>I must update my files</i>	Computer usage
Business matters p.19			
Unit 3 Websites	Website purpose p.20	Talking about websites Question words (1) <i>Which websites do you visit?</i>	Purpose of websites
	Website analytics p.22	Getting information about websites Question words (2) <i>How many people visit our website?</i> Large numbers	Website analysis tools
	Website development p.24	Developing a website Describing steps in a process <i>After that...</i>	Functions of a website Features of a website
	The best websites p.26	Talking about your favourite websites Describing things <i>There are a lot of photos on this website</i>	Adjectives
Business matters p.27			
Unit 4 Databases	Database basics p.28	Understanding database products Asking people to do things <i>Could you help me, please?</i>	Entering a database
	Data processing p.30	Describing data processing steps Quick questions to check understanding <i>Got that?</i>	Data processing steps Prepositions
	Data storage and back-up p.32	Talking about data storage and devices Asking for and giving advice <i>What should I do?</i> <i>You should buy a flash drive.</i>	Data storage and back-up solutions
	Database systems benefits p.34	Using data in company departments	Company departments
Business matters p.35			

	Function	Language	Vocabulary
Unit 5 E-commerce	E-commerce companies p.36	Explaining E-commerce types Quantity <i>many, a few,</i>	Types of business
	E-commerce features p.38	Describing the features of an e-commerce website Linking ideas <i>I have a PC and laptop at home</i>	Website features
	Transaction security p.40	Talking about security Future (<i>will + infinitive</i>) <i>Hackers won't be able to get into the network</i>	Networks
	Online transactions p.42	Describing the transaction process	Online transactions
Business matters p.43			
Unit 6 Network systems	Types of network p.44	Explaining networks Giving reasons <i>I'd recommend a Dell computer because it's cheaper.</i>	Types of network system
	Networking hardware p.46	Describing and fixing network hardware Making suggestions <i>Why don't you call the IT Help Desk?</i>	Network hardware Problems with hardware
	Talking about the past p.48	Using the past tense Past Simple <i>When did they launch the network?</i> Time expressions <i>yesterday</i>	Networking sites
	Network range and speed p.50	Talking about network capabilities	Network terminology Speeds and ranges
Business matters p.51			
Unit 7 IT support	Fault diagnosis p.52	Understanding faults The present perfect <i>Has (s)he switched off the computer?</i>	Fault diagnosis: questions and answers
	Software repair p.54	Filling in service reports	Fault diagnosis questions Possible solutions
	Hardware repair p.56	Using toolkits and making repairs Explaining the use of something <i>We use tweezers to hold small objects</i>	Toolkits Computer hardware
	Customer service p.58	Solving customer service problems	Phonecalls
Business matters p.59			
Unit 8 IT security and safety	Security solutions p.60	Describing security solutions Expressing possibility <i>You may have a virus on the computer.</i>	Types of security threats Security systems
	Workstation health and safety p.62	Identifying a safe working environment <i>should/shouldn't</i>	Office rules
	Security procedures p.64	Explaining network and system security Expressing prohibition <i>You mustn't give your password to anyone.</i>	Security procedures
	Reporting incidents p.66	Reporting a security incident	Reporting process
Business matters p.67			

Partner files: Student A p.68

Audio script p.69

Partner files: Student B p.78

1

Working in the IT industry

- introduce yourself and others
- ask and answer personal questions
- talk about scheduled tasks
- use the alphabet and spell out words

Meeting people

Speaking

- 1 How do you greet people in your country? What do you say when you greet people in English?



Reading

- 2 Complete these dialogues with the words in the box.

all is meet name's Nice this
too you Welcome What's

- 1 Natasha: Hi, my (1) _____ Natasha.
Khalid: Pleased to (2) _____ you. I'm Khalid Ali.
Natasha: Pleased to meet you, (3) _____ .
- 2 Philip: Good morning. (4) _____ your name?
Ahmed: I'm Ahmed. And (5) _____ are?
Philip: My name's Philip. (6) _____ to meet you.
- 3 Tim: Hi everybody, (7) _____ is Ingrid.
All: Hi!
Tim: Ingrid, this (8) _____ Ahmed, Linda, Mohammed and Mansoor.
Ingrid: Nice meeting you (9) _____ .
Linda: Likewise.
Tim: (10) _____ to the team and good luck.

Listening

- 3 Listen and check your answers.

- 4 Listen again and repeat the dialogues.

Speaking

- 5 Work in small groups. Practise introductions. Follow the instructions below.

- 1 Introduce yourself.
- 2 Introduce a new team member.

Listening 6  Listen to this dialogue and choose the correct answers.

Kathryn: Karim, what do you do?
Karim: I'm a (1) *website developer/network administrator*. Who do you work for?
Kathryn: I work for CISCO. I'm a (2) *system analyst/website analyst* there. Where are you from, Karim?
Karim: I'm from Kuwait. I work for Microsoft there. And where are you from, Kathryn?
Kathryn: I'm from the (3) *UK/US* but now I live in Qatar. Do you know where Glenda's from?
Karim: She's from the US.
Kathryn: And what's her job?
Karim: She works for (4) *IBM/Dell*. Her job is to set up new systems.

Language

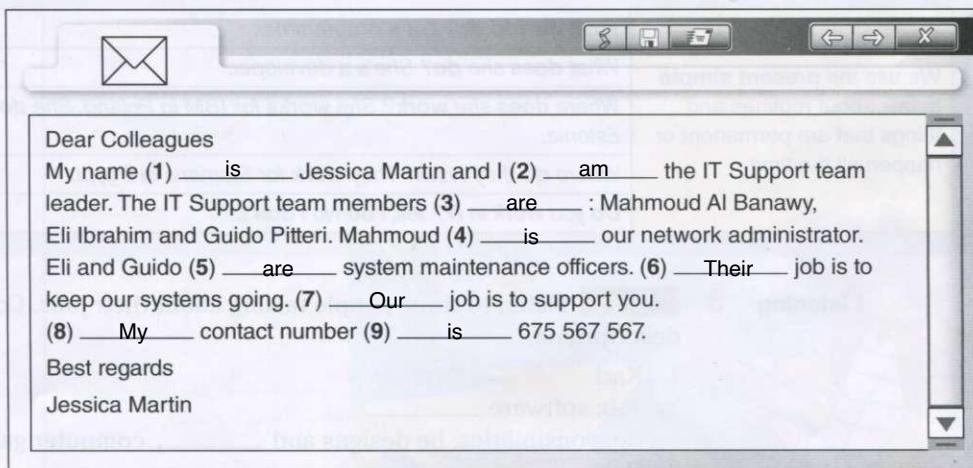
Present tense of be

We use be to say who somebody is or what something is.	<i>I'm Sam.</i>	<i>I am Sam.</i>
	<i>You're/We're/They're from the UK.</i>	<i>You/We/They are from the UK.</i>
	<i>He's/She's a website developer.</i>	<i>He/She is a website developer.</i>
	<i>It's in the US.</i>	<i>It is in the US.</i>
We use be to ask personal questions.	<i>Where are you from?</i>	
	<i>What's his name/job?</i>	<i>What is his name/job?</i>

7  Listen and repeat these words.

I'm, You're, She's, He's, It's, We're, They're/Their

Reading 8 Complete this email with *am, is, are, their, our* or *my*.



Dear Colleagues

My name (1) is Jessica Martin and I (2) am the IT Support team leader. The IT Support team members (3) are : Mahmoud Al Banawy, Eli Ibrahim and Guido Pitteri. Mahmoud (4) is our network administrator. Eli and Guido (5) are system maintenance officers. (6) Their job is to keep our systems going. (7) Our job is to support you. (8) My contact number (9) is 675 567 567.

Best regards
Jessica Martin

Writing 9 Write a reply to the email in 8. Introduce yourself and three people in your group.

Speaking 10 Work in pairs. Ask and answer questions about your jobs, companies and nationalities.

Example:

A: *Where are you from?*

B: *I'm from ...*

Jobs in IT

Speaking

1 Work in small groups. List the IT jobs you know.

Reading

2 Read this team introduction. Complete the descriptions 1–4 with the IT jobs in the box.

Hi! I'm Sylvia. I create usernames and passwords and I set firewalls.

This is Isabelle. Her job is to plan and design the network. And this is Andrew. His job is to make sure all of the computers work properly. Finally, Mark and Latika. Their area is data processing. We all work for the university. Our offices are in building 8.



database analyst IT support officer network administrator
network architect

- 1 Sylvia is a Network administrator.
- 2 Isabelle is a Network architect.
- 3 Andrew is an IT support officer.
- 4 Mark and Latika are Database analyst.

Language

Present simple

We use the **present simple** to talk about routines and things that are permanent or happen all the time.

What do you do? I'm a programmer.

What does she do? She's a developer.

Where does she work? She works for IBM in Poland. She doesn't work in Estonia.

Where do they work? They work for Siemens in Egypt.

Do you work in IT? Yes, I do/No I don't.

Listening

3



5 Listen to three people talking about their jobs. Complete these job descriptions.

1 Karl

Job: software developer

Responsibilities: he designs and develop computer games.

2 Heba

Job: system analyst

Responsibilities: he solved computer problems.

3 Wojtek

Job: database administrator

Responsibilities: he analyses and present electronic data.

Speaking 4 Work in pairs. Ask and answer questions about Karl, Heba and Wojtek.

Example:

A: What does Karl do?

B: He's

Listening 5 Listen and complete this dialogue.

Ahmed: Where (1) do you work, Betty?

Betty: I work for Dell in Dubai. What (2) about you?

Ahmed: I (3) work for HP in Budapest. What do you (4) do, Milo?

Milo: I'm a (5) software developer. I work (6) for Microsoft in Prague.

Betty: Milo, do you (7) know Frida?

Milo: Yes, I do. What do you (8) want to know?

Betty: Where (9) does she work?

Milo: She works with (10) me in Prague. She designs websites for (11) e-commerce.

Ahmed: I see. Right, let's go. The workshop starts in five minutes.

6 Listen and repeat these questions.

1 Where do you work?

2 What about you?

3 What do you do?

4 What do you want to know?

5 Where does she work?

Writing 7 What is your dream job? Write a job description for the job of your choice.

Job: Software developer

Company to work for: Medium size company

Responsibilities:

- Work with team
- Code
- Website creation and deployment



Speaking 8 Tell the rest of the group about your dream job. Use your notes to help you.

Example: My dream job is I design/solve/analyse

Schedules

Listening 1  Listen to two people at an IT conference. Complete this dialogue.



Penelope: Hi, Don. (1) how are you?
Don: I'm (2) fine thanks, Penelope. And you?
Penelope: I'm OK. Bit tired from the flight.
Don: Right.
Penelope: (3) What workshop (4) do you want to attend today, Don?
Don: I want to go to the CISCO network security workshop.
Penelope: Sounds interesting. What time does it start?
Don: It (5) start at 9.15.
Penelope: And (6) when does it finish?
Don: It (7) finishes at 4.00 in the afternoon.
Penelope: Well, I (8) want to attend the Microsoft Windows Applications workshop. It (9) begins at 8.30 am and (10) end at 6.00 pm. But they have two breaks, at 10.30 and 12.45.
Don: That's good.
Penelope: Hope you enjoy your session.
Don: You too. See you around.

Language

Schedules

We use *at* with clock times.

What time does it start/begin/finish/end?	<i>It starts at 9.15. (nine fifteen/quarter past nine)</i>
	<i>It begins at 8.30. (eight thirty/half past eight)</i>
	<i>It finishes at 4.00. (four o'clock)</i>
	<i>It ends at 5.05. (five oh five/five past five)</i>
When do you have a break?	<i>We have a break at 12.45. (twelve forty-five/a quarter to one)</i>

2  Listen and repeat these times.

- | | |
|-------------|--------------|
| 1 7.05 | 5 4.35 |
| 2 6.45 | 6 2.15 |
| 3 8 o'clock | 7 12 o'clock |
| 4 10.45 | 8 9.50 |

3  Listen and repeat these sentences.

- 1 It finishes at 5.00.
- 2 It ends at 8.00.
- 3 It starts at 6.00.

Speaking 4 Work in pairs. Ask and answer questions about your daily schedule and breaks. Make notes.

Example:

A: What time/When do you start work?

B: I start at 8.00. What about you?

A: I begin at



5 Tell another pair about your partner's schedule.

Example: ... starts work at 8.00 and finishes at 4.00. She has a break at 12.00.

Reading 6 Complete these sentences with the words in the box.

at at in for from

I work in an office (1) in Dubai but I'm (2) from Canada. I work (3) for SAP there. I start work (4) at 8.15, have lunch in a café (5) at 1.30 and finish about 5.00.



Writing 7 Write three sentences about yourself and your daily schedule.

Spelling

Speaking

1 Work in small groups. List the IT acronyms you know.

HTML (HyperText Markup Language)
HTML is a mark-up language used to describe the structure of a web page.

FTP (File Transfer Protocol) a standard network protocol used to copy a file from one host to another.

WLAN (Wireless Local Area Network) A type of local-area network that uses high-frequency radio wires to communicate between nodes.

Listening

2 11 Listen and complete this dialogue.

Andrei: Bob, can you (1) help me, please?
Bob: Sure.
Andrei: I don't understand this acronym. What does it (2) stand for?
Bob: Let me see. 'W3'. I'm not sure. Maybe WWW, the World Wide Web.
Andrei: OK. What does P2P stand for?
Bob: (3) It's stands for person-to-person.
Andrei: OK. What does IP (4) mean?
Bob: It means Internet Protocol.
Andrei: How do you (5) spell 'Protocol'?
Bob: p - r - o - t - o - c - o - l.
Andrei: Thanks.
Bob: You're welcome.

3 12 Listen to the letters and repeat them.

a h j k
b c d e g p t v z
f l m n s x z
i y
o
q u w
r

Z /zed/ in British English and /zee/ in American English.

Speaking

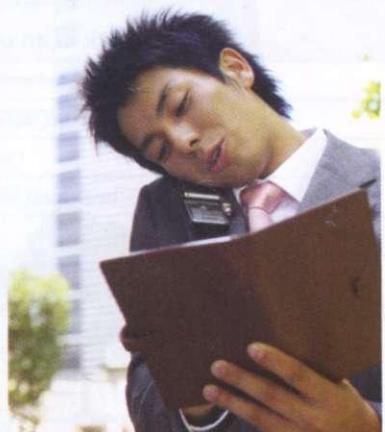
4 Work in pairs. Make a list of acronyms.

Ask and answer questions.

Example:

A: What does HTML stand for/mean?

B: It stands for/means



Business matters

- Writing** 1 You are at a training workshop. The trainer asks all the trainees to complete the form and introduce themselves. Complete this form about yourself.

Participant Information	
Name: <u>MILLAN Romain</u>	Date: <u>10/10/22</u>
DOB: <u>07/01/03</u>	Place of residence: <u>Texte</u>
Contact: Phone <u>06.10.88.43.65</u>	Email <u>romain.millan@etu.umontpellier.fr</u>
Interests: <u>IT - Development</u>	
IT job you want and why: <u>Software developer because</u> 	

- 2 Work in pairs. Swap your profiles and introduce your partner.
3 Write an email message to introduce yourself to the employees in the company using the profile below or your own information.

You are a new employee in a company. Your position is a network administrator. You are responsible for setting up firewalls, security levels, wireless connection, usernames and passwords.

- Speaking** 4 Work in pairs. Student A: you are the IT help desk coordinator, Mrs Mahmoud. Turn to page 68. Student B: you are Sharifa. Turn to page 78. Complete the task. Swap the roles.

The image shows a computer screen displaying an email application window. The window has a title bar with icons for minimize, maximize, and close. The main area contains an email message:

Dear Mrs Mahmoud,

I am a new employee in Finance. I need help with access to the company network. Please can you organise a training session for me? I am free on Thursday after 2.30. Do I need to come to your office? Do you give certificates after the training? Thank you very much for your help.

Sharifa

2

Computer systems

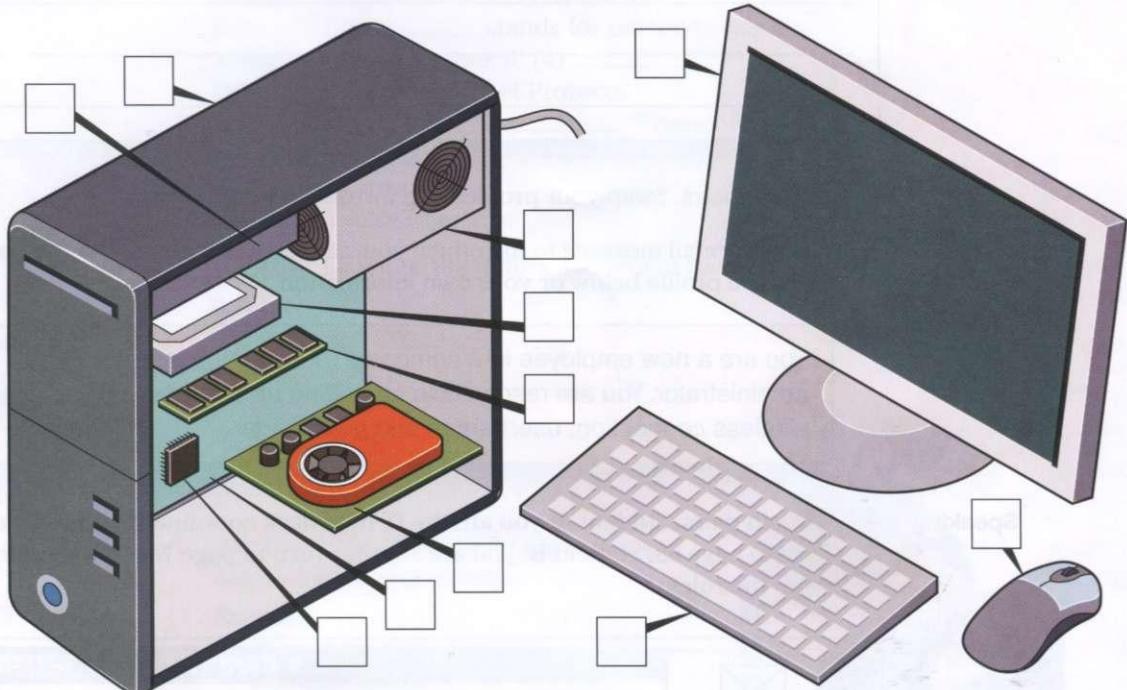
- make comparisons
- talk about what is happening now
- talk about ability and necessity
- talk about obligations

Computer hardware

Speaking 1 Work in small groups. Make a list of all the computer hardware you use in your work or study.

Vocabulary 2 Label the diagram with the correct items 1–11.

- | | |
|---|------------------------------------|
| 1 monitor | 6 expansion cards (video, graphic) |
| 2 case | 7 power supply unit |
| 3 motherboard | 8 optical disk drive |
| 4 CPU (Central Processing Unit
or Processor) | 9 hard disk drive |
| 5 main memory (RAM) | 10 keyboard |
| | 11 mouse |



Listening 3 Listen to two colleagues and complete this dialogue.

- Bob: What do you think? Which (1) laptop is better for the sales team?
- Daisy: I'm not sure. This computer has a (2) bigger memory and I think it has a (3) better processor.
- Bob: And the other one?
- Daisy: Well, it is (4) smaller.
- Bob: And (5) lighter.
- Daisy: Yes, you're right. Lighter and smaller.
- Bob: But the bigger one is (6) cheaper.
- Daisy: So what is our decision?
- Bob: I'm not sure. Let's go for a coffee and discuss this again.

Language

Comparatives

We use comparative adjectives to compare two people or things.

For short adjectives we add -er (than). Be careful of spelling.	big	bigger	<i>The new monitor was bigger than the old monitor.</i>
	fast	faster	<i>Your processor is faster than mine.</i>
	easy	easier	<i>It's easier to use than the other one.</i>
For long adjectives we use more/less (than) .	difficult	more/less difficult	<i>This version is more difficult to use than the old version.</i>
	expensive	more/less expensive	<i>His computer is less expensive than hers.</i>
	reliable	more/less reliable	<i>I think you should buy that CPU. It is more reliable than the one you have.</i>
Some comparatives are irregular.	bad	worse	<i>That screen resolution is much worse than before!</i>
	good	better	<i>I really like this mouse. It's so much better than the old one.</i>

4 Make the comparative form of these adjectives.

Example: *long longer*

- 1 light Lighter
- 2 efficient more/less efficient
- 3 long Longer
- 4 wide Wider
- 5 heavy Heavier
- 6 fast Faster
- 7 dark Darker
- 8 soft Softer
- 9 hard Harder
- 10 durable more/less durable

5 Listen and check your answers.

6 Listen again and repeat the words.

Reading 7 Read these product descriptions and make sentences using comparatives.

Example: *The Corsair is longer than the Imation but slimmer.*

Corsair Flash Survivor GT 8GB



8GB
Read at 34MB/s
Write at 28MB/s
3.25" x 0.75"
Aluminium
256-bit AES
SW encryption
Ten year warranty
Price £25

Imation Clip Flash Drive 4GB



4GB
Read at 15MB/s
Write at 9MB/s
2.95" x 1.14"
Plastic
No data encryption
Five year warranty
Price £10

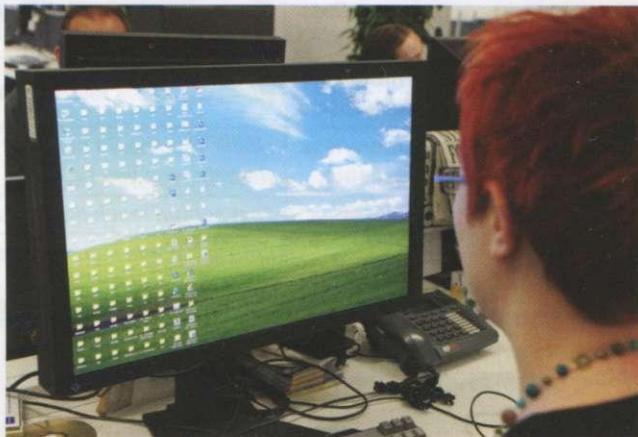
Writing 8 Work in pairs. Write an email to a colleague comparing the two products in 7.

Computer software

Speaking

1 Work in small groups. Make a list of all the computer software you use in your work or study. Think about:

- application software
- programming software
- system software



2 Make a list of the computer software your non-IT colleagues use.

Language

Superlatives

We use superlative adjectives to compare a person or thing with a number of other people or things.

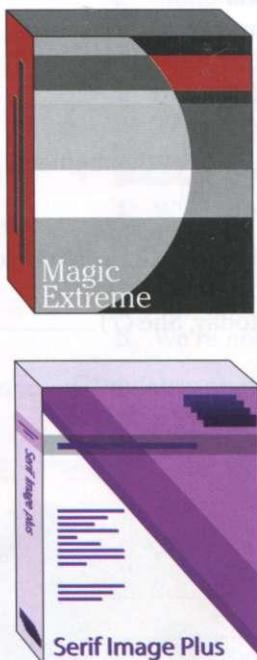
For short adjectives we add the + -est . Be careful of spelling.	big	biggest	<i>The new monitor was the biggest in the room.</i>
	fast	fastest	<i>Your version of the software is the fastest.</i>
	easy	easiest	<i>It's the easiest to use.</i>
For long adjectives we use the most/the least .	difficult	the most/least difficult	<i>This version is the most difficult to use.</i>
	expensive	the most/least expensive	<i>His computer is the least expensive.</i>
	reliable	the most/least reliable	<i>I think you should buy that. It is the most reliable.</i>
Some superlatives are irregular.	bad	the worst	<i>That is the worst software I've ever used!</i>
	good	the best	<i>I really like this website. It's the best I've seen.</i>

Speaking

3 Work in small groups. Talk about the software you and your non-IT colleagues use. Answer these questions.

- 1 What are the differences between the IT and non-IT software you have listed?
- 2 Which is the cheapest?
- 3 Which is the most expensive?
- 4 Which is the most/least reliable?
- 5 Which is the most difficult/easiest to use?
- 6 Which is the best/worst?
- 7 Which is the most/least user-friendly?

Listening 4  15 Listen to two colleagues discussing software and complete this dialogue.



Tim: What do you think about these three photo imaging packages?
 Simone: It's a difficult choice. All three are very good but they have different strengths.
 Tim: I agree.
 Simone: Serif Image Plus has (1) the best image (2) correction.
 Tim: OK.
 Simone: But Magic Extreme has the (3) fastest processing of images.
 Tim: You're right. Also, Serif has (4) the best special (5) effects. But what about Snap Pro?
 Simone: Well, it has the (6) best dubbing options.
 Tim: And Snap Pro is the best for (7) burning photos.
 Simone: I'm not sure. Serif has (8) the most efficient (9) compression.
 Tim: Which is the most expensive?
 Simone: Oh, Serif Image Plus.
 Tim: And the cheapest?
 Simone: Snap Pro.
 Tim: Let's get Snap Pro then.
 Simone: I'm still not sure!

Language

Present tense of have (got)

We use have (got) to talk about possession.	I've/You've/We've/They've (got) ...	!/You/We/They have (got) ...
	He's/She's/It's (got) ...	He/She/It has (got) ...
	!/You/We/They haven't (got) ...	!/You/We/They have not (got) ...
	He/She/It hasn't (got) ...	He/She/It has not (got) ...
	!/You/We/They don't have ...	!/You/We/They do not have ...
	He/She/It doesn't have ...	He/She/It does not have ...
	Have /!you/we/they got ...?	
	Has he/she/it got ...?	
	Do /!you/we/they have ...?	
	Does he/she/it have ...?	

Listening 5  16 Listen and repeat these sentences.

- 1 We've got the best software.
- 2 Does it have the most reliable anti-virus software?
- 3 She has the cheapest computer.
- 4 They haven't got the latest version.
- 5 Do you have the fastest processor?
- 6 Has it got Windows?
- 7 They have the latest software.
- 8 It has the biggest screen.



Writing 6 Work in pairs. Write five sentences comparing three software products you use or know.

Working with computers

Listening



1 Listen and complete this dialogue.

Paul: Hi, Brinitha.

Brinitha: Hi, Paul.

Paul: How's it (1) going?

Brinitha: Fine, fine.

Paul: What (2) are you (3) doing at the moment?

Brinitha: Oh, I (4) 'm installing Nero.

Paul: How are you getting on?

Brinitha: Well, I (5) am settings up a network. I (6) 'm using Microsoft Server.

Paul: Right. Where is Jackie today? Do you know?

Brinitha: Yes. She is on a training course today. She (7) is learning about the new database system.

Paul: What about Mary and Imran? Where are they?

Brinitha: They (8) are in today. They have a day off.

Language

Present continuous

We use the **present continuous** to talk about things that take place at the time of speaking and are not permanent.

I'm **installing** the software.

He's/She's **setting up** a network.

We're/They're **working** at home today.

I'm **not setting up** the network.

He's/She's **not installing** the software.

We/They **aren't coming** in today.

Are you **installing** it now?

What am I **doing**?

What are you/they **doing**?

What is he/she **doing**?

2 Complete these sentences with *is/isn't*, *am/am not*, *are/aren't*.

1 It is/isn't going well.

2 I am/am not learning a new program.

3 She are/aren't working in the office today. She has a day off.

4 They are/aren't installing the new software.

5 We are/aren't setting up the network.

6 We are/aren't using Word. We have a different word-processing program.

7 Where are/aren't they working today?

8 What is/isn't he installing on the computer?

9 I am/am not coming in today. I'm sick.

10 is/isn't she working at home today?

Vocabulary 3 Match the sentence halves 1–8 to a–h.

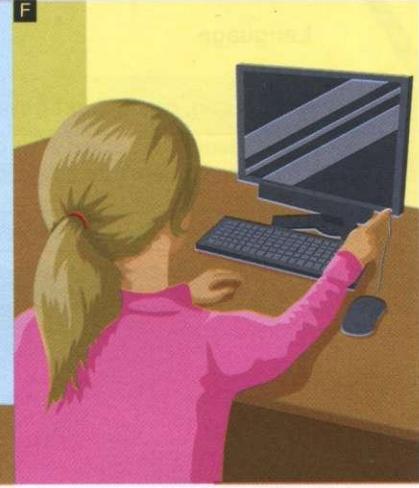
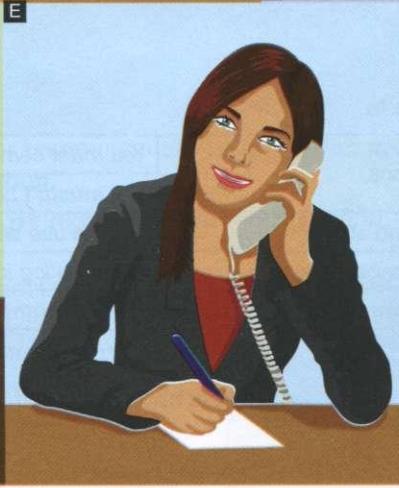
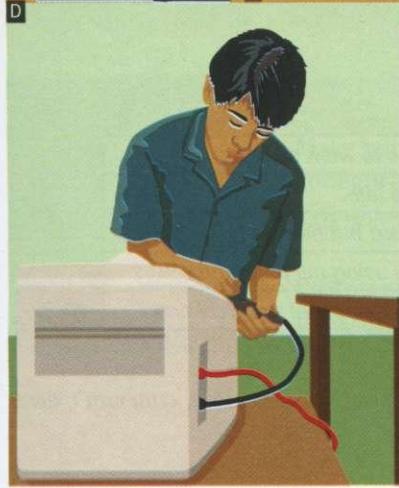
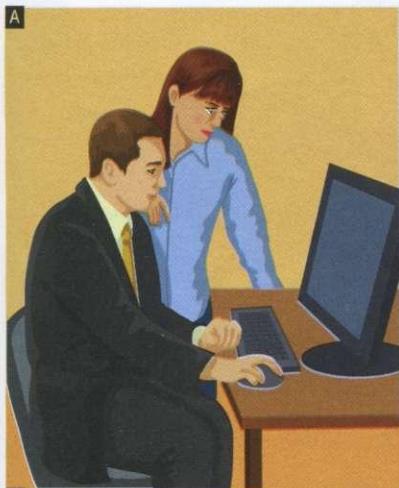
- 1 Hanka is creating a) the software.
- 2 Philip is inserting an b) a check-up.
- 3 Rob is troubleshooting c) a file.
- 4 We are running d) a device.
- 5 Betty is connecting e) CDs.
- 6 They are burning f) image.

Listening 4 18 Listen and repeat these sentences.

- 1 What are you doing now?
- 2 Are they setting up the network?
- 3 She's working at home today.
- 4 I'm not installing the software.
- 5 We're not using Word.

Speaking 5 Look at the pictures A–F. Describe what is happening.

Example: He is moving ...



6 Work in pairs or small groups. Talk about what you are doing at the moment in your work or study.

Writing 7 Write three sentences saying what you and your colleagues are doing at the moment in your work or study.

Computer usage

Reading

1 Read what Ben says about computer usage in his office. Answer the questions.

- 1 What **must** Ben do?
- 2 What **can** Ben do?
- 3 What **can't** Ben do?
- 4 Can he open any website?
- 5 Why is it important to follow computer dos and don'ts?



Speaking

2 Make a list of computer usage where you work or study. Compare your list with the group.

Language

must, mustn't, can, can't, don't have to

We use **must** and **mustn't** for obligations.

You **must** come to work on time.

You **mustn't** be late.

We use **can** and **can't** for possibility and ability.

He **can** use Word but he **can't** use Excel.

We use **have to** for something that is necessary.

I **have to** log in using my password.

We use **don't have to** for something that is not necessary.

We **don't have to** work at the weekend.

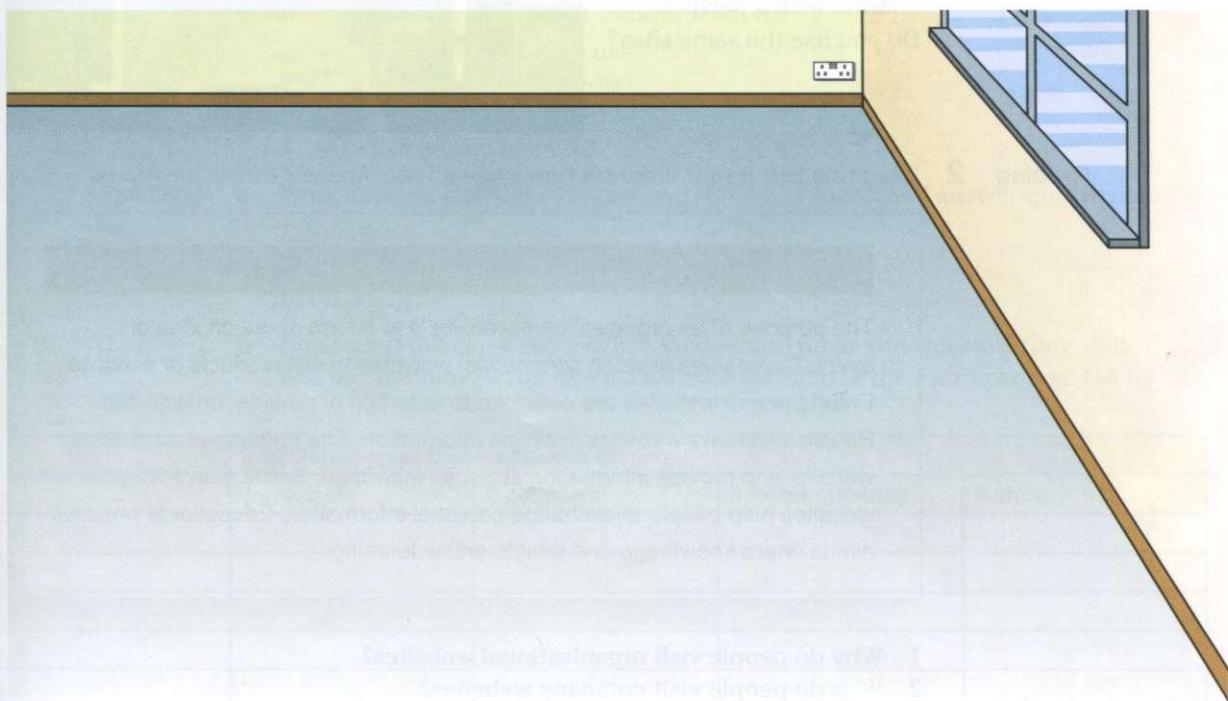
Writing

3 Write an email to a colleague about yourself using **must**, **mustn't**, **can**, **can't**, **have to**, **don't have to**.

Business matters

Speaking

- 1** A company asks you to recommend a computer and work station configuration for their sales team. In small groups, decide what to recommend. Use the office floor plan below to prepare the computer and work station configuration. Think about these things:
- 1 There are six people in the sales team.
 - 2 Five people are out of the office four days of the week.
 - 3 One person is in the office all the time – the team admin assistant.
 - 4 Employees need a network connection (wired and wireless).
 - 5 Employees print, scan and copy.
 - 6 Company and client data must be stored on a separate device and backed up regularly.



- 2** Make your recommendations to another group. Choose the best computer configuration.

Example: We recommend this configuration. You have /It has

Writing

- 3** Write a short email to the IT manager with your recommendations.



3

Websites

- discuss the purpose of websites
- talk about website features
- describe a process
- write a proposal

Website purpose

Speaking

- 1 Which websites do you use in your work and study? Make a list and share it with a partner. Do you use the same sites?



Reading

- 2 Read this text about different types of website. Answer these questions.

TYPES OF WEBSITE – A GUIDE FOR WEBSITE DESIGNERS

The purpose of an organisational website is to inform about an idea or event. Companies develop commercial websites to sell products or services. Entertainment websites are designed to entertain or provide fun activities. People visit news websites to obtain information. The purpose of a personal website is to provide information about an individual. Social networking websites help people to exchange personal information. Educational websites aim to share knowledge and enable online learning.

- 1 Why do people visit organisational websites?
- 2 Why do people visit company websites?
- 3 Why do people visit entertainment websites?
- 4 Why do people visit news websites?

Vocabulary

- 3 Complete these sentences about the purpose of websites with the words in the box.

offer practise present promote read sell share

Example: The purpose of Nationalgeographic.com is to present information on topics.

- 1 People visit CNN.com to _____ international news.
- 2 Some websites want to _____ a service.
- 3 Companies use Amazon.com to _____ their products.
- 4 Thegreenshoppingguide.co.uk wants to _____ environmentally friendly shopping.
- 5 Students visit Math.com to _____ their maths.
- 6 English teachers join eltforum.com to _____ teaching resources.

Language

Question words (1)

We use which to ask about things. We can use it with a noun.	Which websites do you visit/go to? I use Wikipedia a lot.
We use what to ask about things.	What do you use CNN for? I use it to get the news.
We use why to ask the reason for something.	Why do you use Wikipedia? I use Wikipedia to check information.
We use when to ask about time.	When do you use CNN? In my lunchbreak.

Listening 4

19 Listen and repeat these questions.

- 1 Which websites do you use?
- 2 Why do you use Wikipedia?
- 3 What do you use CNN for?
- 4 When does she use CNN?

Speaking 5

Work in pairs. Use the websites you listed in 1 to ask and answer questions.

Example:

A: Which websites do you use?

B: I use

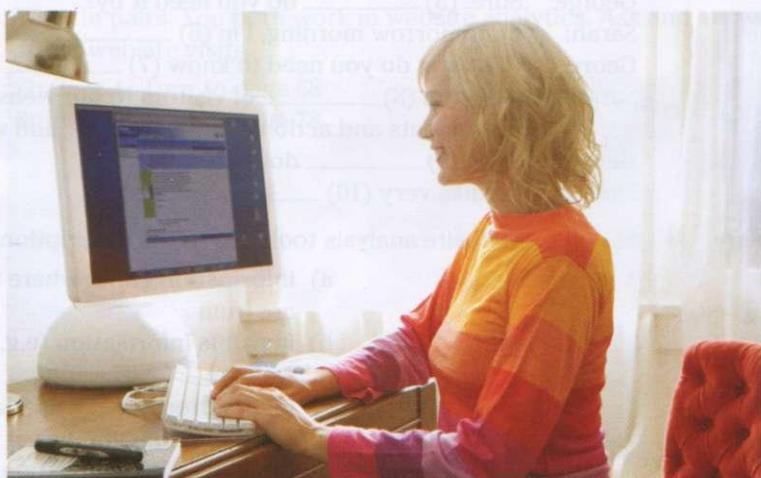
6

Go around the class and ask five students to name the websites they visit and use at home. Write down a website for each of the four headings 1–4 in the table.

Interviewee name	Interviewee uses these websites to:			
	1 entertain	2 get news	3 research/study	4 shop
a)				
b)				
c)				
d)				
e)				

7

Present the information you collected to the group. Which are the most popular websites for each heading?



Website analytics

Speaking

- 1 What information can you get about website traffic using a website analysis application? Work in pairs. Make a list.



Reading

- 2 Which items of the analytics programme above answer these questions?

Example:

A: Where do you find information about the website's visitors?

B: In 'Visitors Overview'.

- 1 Where can you find out how many people visit the website?
- 2 Where can you see what percentage of people view only one page on the website?
- 3 Where do you find information about how long they spend on the website?
- 4 Where do you see how many people searched for 'gotapps' to find the website?

Listening

3

20 Listen to Sarah and George. Complete this dialogue.

- Sarah: George, I (1) _____ some information about our website.
George: OK, what do you need to (2) _____ ?
Sarah: Well, I need some information about website (3) _____ , you know, external visits to our website.
George: OK.
Sarah: (4) _____ you do a report for me?
George: Sure. (5) _____ do you need it by?
Sarah: Er, tomorrow morning, I'm (6) _____. It's for the finance director.
George: OK, what do you need to know (7) _____ ?
Sarah: Well, the (8) _____ of visitors to our website last month, their movements and actions on the website, and where they're from.
George: OK, I (9) _____ do that.
Sarah: Thanks very (10) _____ indeed.

Vocabulary

4

Match the website analysis tools 1–5 to the descriptions a–e.

- 1 traffic
- 2 meta tag
- 3 visitor map
- 4 user profile
- 5 page optimisation

- a) information about where the visitors to your site are from
- b) invisible information (e.g. a hidden keyword) on a website
- c) information about a user and the sites they browse
- d) increasing the number of visitors to your site
- e) the movement and actions of visitors to your site

Language

Look at the website www.google.com

Question words (2)

We use how much/how many to ask about quantity.	How many people visit our website every day? About 20,000. How many hits do we get each month? About 40,000.
We use where to ask about places.	Where are the visitors from? From Asia and the US.
We can use how + adjective/adverb to ask about degree.	Where do they go on our website? To 'News'. How often do people visit our website? At least once a day.

Listening 5



Listen and repeat these questions.

- 1 How many people visit the site?
- 2 Where do they go on the website?
- 3 How long do they spend on the website?

Language

Large numbers

20,000	<i>twenty thousand</i>
400,000	<i>four hundred thousand</i>
500,000	<i>five hundred thousand/half a million</i>
3,000,000	<i>three million</i>

6 How do you say these numbers?

- 1 30,000
- 2 700,000
- 3 10,000,000
- 4 100,000
- 5 80,000

7



Listen and check your answers.

Speaking

8 Work in pairs. You both work in website analytics. Ask and answer questions about website visits.

Student A: Turn to page 68

Student B: Turn to page 78



Website development

Speaking

- 1 Describe something you do every day at home or at work. Use the words in the Language box below.

Example: Sending an email.

First, click on 'New email'. After that ...

Language

Describing steps in a process

We use **first, next, then, after that** (etc.) to describe the order of actions.

<i>First, do</i>	<i>To start, do</i>
<i>After that,</i>	<i>Next,</i>
<i>Then,</i>	
<i>Secondly,</i>	<i>Thirdly,</i>
<i>Finally,</i>	<i>To finish,</i>

- Reading 2 Complete this text with the words in the box.

After that Finally First Next Secondly Then Thirdly

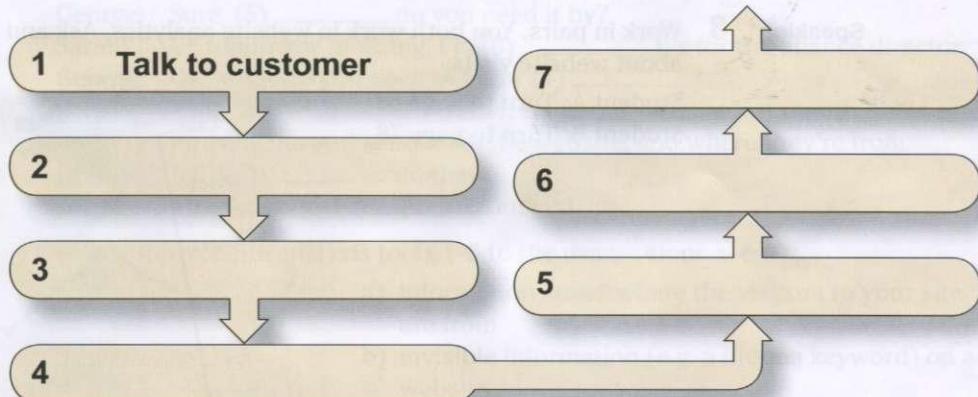


The steps in website development

(1) _____, discuss with the customer their requirements and the target audience. Find out what features and number of pages they want on their site. (2) _____, analyse the information from the customer. (3) _____, create a website specification. (4) _____ design and develop the website. (5) _____, assign a specialist to write the website content. (6) _____ give the project to programmers for HTML coding. (7) _____, test the website.

After you publish the website, update and maintain it on an ongoing basis. Monitor customer use.

- 3 Work in pairs. Complete the flowchart to show the website development process.



- Speaking 4 Describe the website development process to another pair in your own words.

Reading 5

- Look at the websites below and answer these questions.
- What are the websites?
 - Do you use these websites? Why/Why not?
 - What is the purpose of each website: sell, inform, share, educate?
 - What are the main features of each website?
 - Think of two more websites that have the same purpose. Are they different to the ones below? Why?

Writing 6

- You are the owner of a company that needs a new website. Make a list of things that you need/would like for your website. Answer the following questions.
- What is the name of your company?
 - What is the business type?
 - What is the purpose of your website?

Speaking 7

- Work in pairs. Student A is the website developer. Student B is the customer. Ask and answer questions about website requirements. Swap roles.

Example:

- A: *What is the name of your company?*
B: *It's called/Its name is*

The best websites

Vocabulary

- 1** What are your favourite websites? Why? Use the words in the box to describe them.

beautiful well-designed easy-to-use/navigate clear reliable
 useful informative fun funny exciting interesting

Example: The most exciting website is ... because



Language

Describing things

There's/There is/There isn't	There's a lot of information on this website.
There are/aren't	There aren't many photos on this website.
Has	The website has good graphics.
Have	Most websites have a lot of features.

Writing

- 2** Write about the things you like and dislike about different websites.

Example: I really like the look of the Nickelodeon website. It has

Speaking

- 3** What are the trends in website design? Discuss with the group.

Example: Websites use more video now.

Business matters

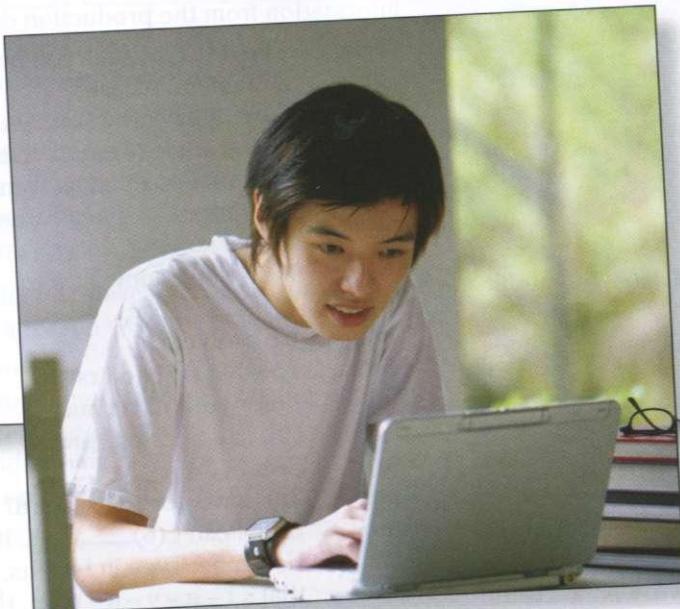
Reading

1 You are a website designer. Read the information about Learning Now Ltd. Answer these questions.

- What is the business type?
- What is the purpose of the website: sell, inform, share, educate?
- Who are the website users? Where are the website users?
- What are the features of the website?

Learning Now Ltd

Learning Now Ltd is in the education business. It needs a new website to promote its courses, materials and learning resources and provide online language-learning services. The website users are young adults all around the world. The website needs to have these features: good interactivity, audio and fast download times.



Writing 2 In pairs, write a proposal for Learning Now Ltd's website. Use your answers from 1 and the template below to help you.

Proposal No. 2011/32154	Date:
Customer:	Business activity:
Subject:	
Purpose:	
Users:	
Features:	
Proposal presented by:	

Speaking 3 Present your proposal to the group.

4

Databases

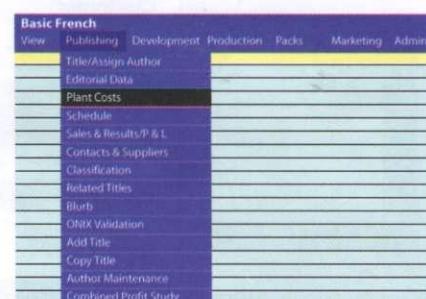
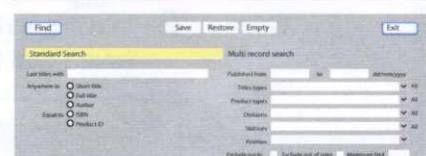
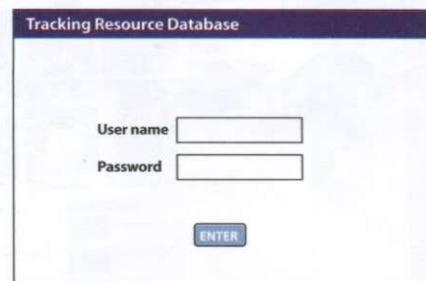
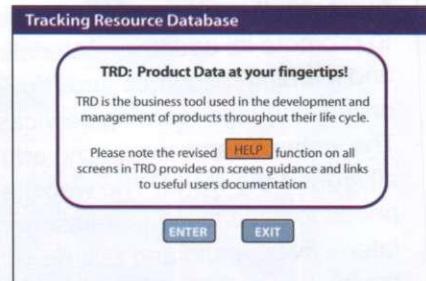
- talk about databases
- talk about data processing
- ask for and give advice
- talk about company departments

Database basics

Speaking 1  What database products do you know and use at work and at home?

Listening 2  Listen to two colleagues at a book company. Chris needs some information from the production database. Complete this dialogue.

Chris: Tim, (1) Could you help me a moment, please?
Tim: Sure. What's the (2) problem?
Chris: I need some (3) informations about a book budget from the database.
Tim: OK.
Chris: But I don't know how to (4) get it.
Tim: No problem.
Chris: So what do I do first?
Tim: Enter your name and (5) password and press enter.
Chris: Erm ... ?
Tim: You have got a password?
Chris: Erm, I can't (6) remember it.
Tim: Use mine. Type in t evans, that's t - e - v - a - n - s, then snavet. s - n - a - v - e - t.
Chris: OK.
Tim: Now press Enter. Now what is the name of the book?
Chris: *Basic French*.
Tim: OK. Type in that in the title (7) field in the first (8) column. Now press Find. There it is. OK, budget. Click (9) on Publishing and scroll down to Plant costs and click on that.
Chris: Good. There's the budget in the second row. Thanks, Tim.
Tim: No problem.



Project title	Basic French		
	Budget	Cost to date	Difference
Editorial	40 000	8 000	+2 000
Design	13 000	12 000	+1 000
Multimedia	5 000	0	+5 000
Freelance	7 000	1 000	+6 000
Marketing	5 000	6 000	-1 000
Summary		27 000	+13 000

Asking people to do things

We use **can/could/would you + infinitive** without *to* when we ask somebody to do something for us.

Could you help me, please?
Sure.

Please could you help?
No problem.

Can you explain what a database is, please?
I'm afraid I can't.

Please can you explain what a database is?
I'm sorry, I can't.

Would you explain that, please?
Could you come back a bit later? I'm busy right now.

3  24 Listen and repeat these questions.

- 1 Could you help me, please?
- 2 Please could you help me?
- 3 Would you help me with this software?
- 4 Please could you explain how to do that?
- 5 Please would you give me your password?

Speaking 4 Work in pairs. Student A: make questions from the prompts. Student B: answer *yes* or *no* and give a reason why not (if your answer is no).

Example: type/name

Could you type in your name, please?

- 1 open/window
- 2 turn up/air conditioning
- 3 turn down/mp3 player
- 4 give/you/pen
- 5 answer/phone
- 6 give/password

5 Work in pairs. Use the example of a database below to explain to your partner what a database is. Use these words: *store, access, get, fields, columns, rows*.

Example: *A database is used to This is a*

First Name	Last Name	Department	Title	Phone ext.
John	Smith	Development	Engineer	123
Jane	Doe	Finance	Auditor	454

6 Why do people and organisations use databases? Discuss with the group.

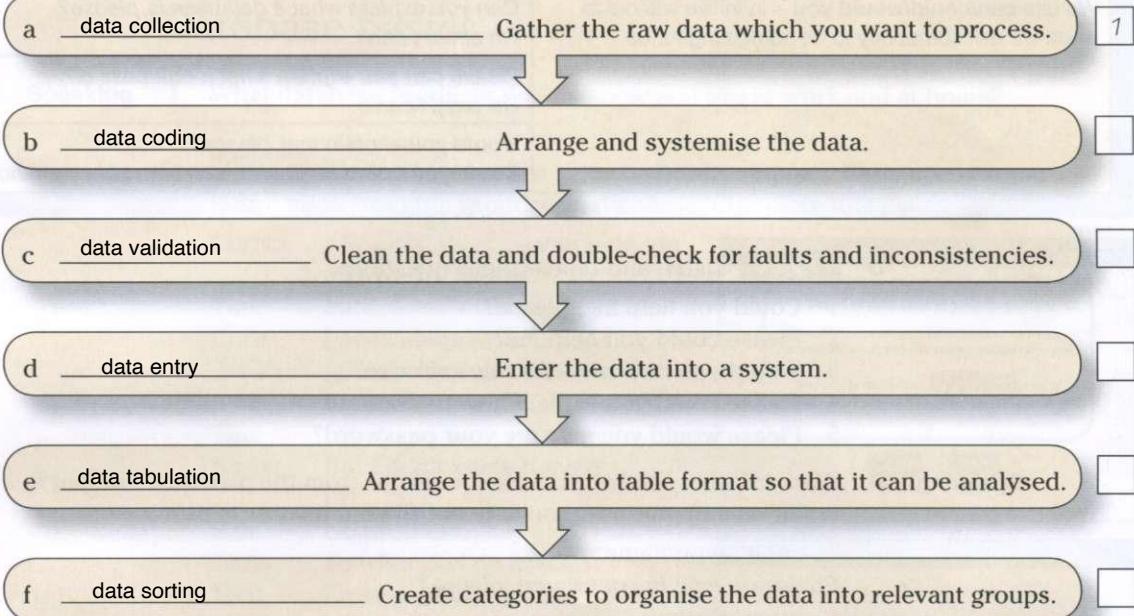
Example: *They use databases to find out*

Data processing

Vocabulary

- 1 Match the headings in the box to the data processing steps a-f.

data coding data collection data entry data sorting
data tabulation data validation



- 2 Put the data processing steps in 1 into the correct order.

- Listening 3 Listen to an IT expert describing the data processing steps to a colleague. Check your answers to 1 and 2.



- 4 Listen and mark the syllable stress in these nouns and verbs.

1 <u>entry</u>	7 <u>gather</u>
2 <u>collection</u>	8 <u>create</u>
3 <u>tabulation</u>	9 <u>arrange</u>
4 <u>validation</u>	10 <u>enter</u>
5 <u>sorting</u>	11 <u>double-check</u>
6 <u>coding</u>	12 <u>format</u>

- 5 Listen again and repeat the words.

Vocabulary 6 Complete these sentences with the words in the box.

about at between for from in into of to

Example: This database is used to store our financial information.

- What's the difference between a database and a spreadsheet?
- A database is for storing data.
- The school has information about students.
- Can people access the system at the same time?
- A database is a collection of records.
- You retrieve information in the database.
- You enter the data into the system.
- Which software do you use for your work?

Language

Quick questions to check understanding

We use these when we are making sure the other person understands the statement.

That's called collection. OK?

That's coding? Got that?

That's tabulation. All right?

We call that sorting. Understood?

Speaking 7 Work in pairs. Explain the data processing steps from 1 in your own words.

8 Look at the examples of database software below. What database software do you know? What is it used for?



Data storage and backup

Vocabulary

- 1 Match the data storage and backup solutions in the box to pictures A–F.
What other solutions are there?

external hard drive hard disk mp3 player server the Internet
usb flash drive



A usb flash drive



B hard disk



C external hard drive



D Server



E the Internet



F MP3 player

Reading

- 2 Read this article about data storage. Complete the sentences with the words in the box.

cloud contents emerging encrypt flash loss magnetic
offsite protect security theft volumes

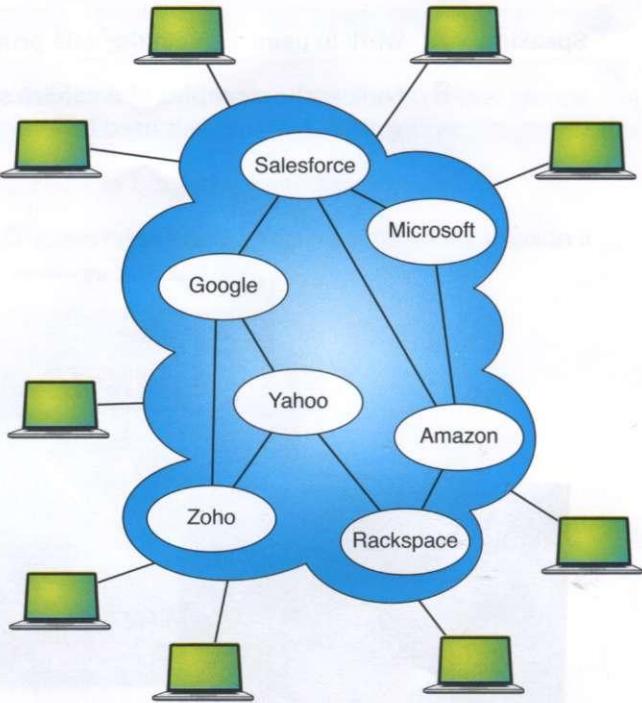
Data storage

Online storage is an (1) emerging method of data storage and back-up. A remote server with a network connection and special software backs up files, folders, or the entire (2) contents of a hard drive. There are many companies that provide a web-based backup.

One (3) offsite technology in this area is (4) cloud computing. This allows colleagues in an organisation to share resources, software and information over the Internet.

Continuous backup and storage on a remote hard drive eliminates the risk of data (5) loss as a result of fire, flood or (6) theft. Remote data storage and back-up providers (7) encrypt the data and set up password protection to ensure maximum (8) security.

Small businesses and individuals choose to save data in a more traditional way. External drives, disks and (9) magnetic tapes are very popular data storage solutions. USB or (10) flash memories, DVDs and hard disks are cheap and widely accessible solutions. These methods are very practical with small (11) volumes of data storage and backup. However, they are not very reliable and do not (12) protect the user in case of a disaster.



Speaking

- 3 What storage and backup solutions are the most popular? Which solutions do you use most often?

Listening 4



27 Listen and repeat these phrases.

- 1 emerging technology
- 2 cloud computing
- 3 data storage
- 4 hard drive
- 5 external drives
- 6 backup providers

5 28 Listen to this dialogue. A colleague, Tim, is asking an IT expert, Sandy, what storage device to buy. Mark these statements true (T) or false (F).

- 1 Tim needs the storage device for work. T F
- 2 Tim wants to backup music and photos. T F
- 3 Sandy recommends an external hard drive. T F
- 4 Tim can spend \$300 on the storage device. T F
- 5 Sandy recommends a storage device with a special feature. T F

Language

Asking for and giving advice

We use **should/would** + infinitive without **to** to give advice.

I/You/He/She/It/We/They should/shouldn't (should not)

What should I do?

You should buy a flash drive.

You shouldn't get a server.

I/You/He/She/It/We/They would/wouldn't (would not)

What would you recommend?

I'd (would) recommend a flash drive.

I wouldn't (would not) recommend a server.

Speaking 6

Work in pairs. Practise asking for advice about backup solutions for a small company. Use the information in 2.

Example:

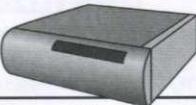
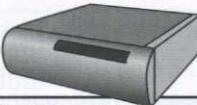
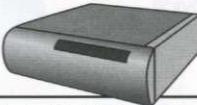
A: *What would you recommend ... ?*

B: *I'd recommend ... /You should*



Database system benefits

- Speaking** 1 What kind of data do companies create, manipulate, store and retrieve?
- Vocabulary** 2 Match the company department 1–8 with the type of data it works with a–h.
- | | |
|----------------------|---|
| 1 Finance | a) data about employees, training, recruitment needs |
| 2 Marketing | b) data about product specification, details and design |
| 3 Human resources | c) data about profits, tax, loans, shares and cash |
| 4 Customer relations | d) data about volume of products sold |
| 5 Production | e) data about customers, satisfaction surveys, promotions |
| 6 Technical support | f) data about product advertisements and competitors |
| 7 Sales | g) data about quantity of product in storage |
| 8 Stock management | h) information about the Help Desk, support calls, manuals, problem reports |
- 3 Look at the four types of data below from PartyPlanner Ltd. What do you think PartyPlanner Ltd does? What company departments can you identify?

			
Personal data: - CVs, job descriptions - employee personal data - training - holiday	Customer data: - customer contacts - satisfaction surveys - promotions	Product data: - inventory - purchasing needs - return products	Technical data: - contact to help desk - helpdesk reports - troubleshooting manuals - service reports

- Speaking** 4 Work in small groups. Talk about the advantages and disadvantages of a computerised database. Present your ideas to the rest of the group.

Example: There are many advantages/disadvantages ...



Business matters

Reading

1 Read part of this email from the owner of Jumbo Book Store. Answer these questions.

- 1 What types of information does Jumbo Book Store communicate between its employees?
- 2 How do the employees exchange information in the company?
- 3 What documents does Amiki prepare?
- 4 How much time does it take to compile the data?
- 5 Why do the customers complain?

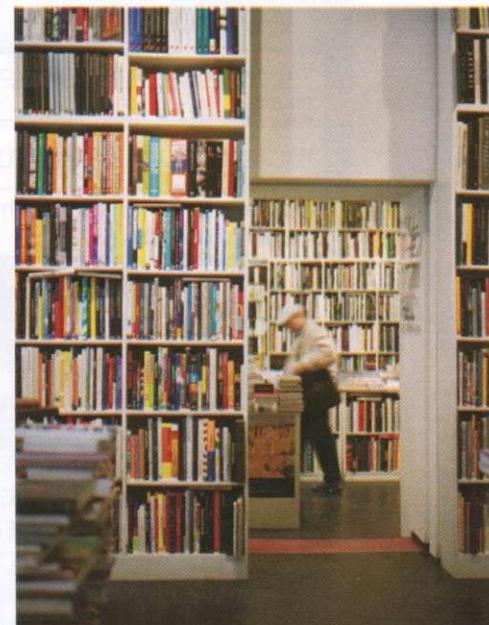
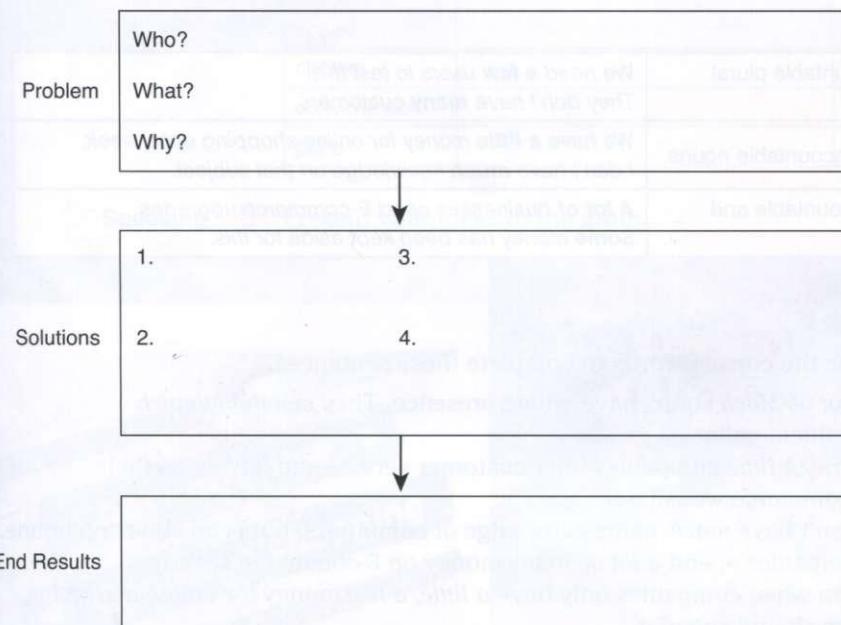
The screenshot shows an email application window. The message content is as follows:

Let me give you some background to our company's setup.
Jumbo Book Store is a company based in Thailand. It has three book stores and a warehouse next to one of the book shops. The store manager, Amiki Sukhon, finds it very difficult to track sales because he uses handwritten sales reports that employees prepare every day. The driver takes the reports and delivers them to the main office. Every day it takes 5 to 6 hours to compile data about the sales. Based on these sales reports, Amiki writes purchase orders for new books, sales figures for the owner and customer information for the marketing department.
In addition, he often gets calls from customers complaining about poor information about available books and stationary products in the warehouse.
Could you spend some time looking at how we can improve our processes?
Regards

Speaking

2 Work in small groups. Prepare recommendations using the problem/solution outline.

Problem/Solution Outline



3 Present your recommendations to another group.

5

E-commerce

- talk about e-commerce companies and websites
- talk about quantity
- talk about future arrangements
- present a plan

E-commerce companies

Speaking

- 1 What products or services do you usually buy online? What products do you not buy online? Why?



Listening

2



Listen to this interview with David Aston. He works for a company that sells home cleaning products. Mark the statements true (T) or false (F).

- | | |
|--|-------|
| 1 David's company sells mainly online. | T / F |
| 2 70% of their business is online. | T / F |
| 3 People buy their cleaning products when they buy their food. | T / F |
| 4 People buy their cleaning products in supermarkets. | T / F |
| 5 Online sales are growing. | T / F |

Language

Talking about quantity

We use **many** and **a few** with countable plural nouns.

*We need **a few** users to test this.
They don't have **many** customers.*

We use **much** and **a little** with uncountable nouns.

*We have **a little** money for online shopping each week.
I don't have **much** knowledge on that subject.*

We use **a lot of** and **some** with countable and uncountable nouns.

***A lot of** businesses need E-commerce upgrades.
Some money has been kept aside for this.*

3

Choose the correct words to complete these sentences.

- 1 *A lot of/Much* shops have online presence. They sell *many/much* products online.
- 2 *Some/A little* companies offer customer service and advice on their E-commerce websites.
- 3 I don't have *much/many* knowledge of computers, but I can still shop online.
- 4 Companies spend *a lot of/many* money on E-commerce security.
- 5 Even when companies only have *a little/a few* money for online marketing, they should spend it.

Listening 4  30 Listen and repeat these phrases.

- 1 not a lot of time
- 2 too much work
- 3 only a little money
- 4 a few computers
- 5 a lot of memory

Speaking 5 Work in pairs. Use the words in the Language box on page 36 to talk about your own online shopping habits.

Example: I buy a lot of music online but I get few clothes online.

Vocabulary 6 Match the types of business in the box to the correct column 1–4.

B2C business-to-consumer	C2C consumer-to-consumer
B2B business-to-business	M-commerce

Types of Business	1 _____	2 _____	3 _____	4 _____
Explanation	Companies exchange information and make wholesale transactions.	Companies sell products or services to customers over the Internet.	People sell or exchange second-hand, used items and collectibles.	Customers purchase products and services via mobile devices.
Examples	coffee supplier to Nestlé	Amazon	eBay	news, sport results

7 Give examples of the four types of business in 6.

Writing 8 What are the advantages and disadvantages of shopping online? Use this table to make notes and then make sentences.

Example: There's more choice online but you can see things better in a shop.

	advantages	disadvantages
security		
speed		
choice		
convenience		
price		

Speaking 9 Present your ideas to the group.



E-commerce features

Speaking

1 Work in small groups. What are the features of this website?

Customers Viewing This Page May Be Interested in These Sponsored Links

- AS Levels Home Study
- All Major A Levels With Unlimited Support From Specialist Tutors!
- Media & Communication
- Exciting opportunities for UG study De Montfort University. View here
- MA Media & Communications
- At Middlesex University Read More & Apply Today!

Customers Who Bought This Item Also Bought

--	--	--	--	--	--	--	--

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Vocabulary

2 What are the steps in buying products online? Number these sentences in the correct order.

- The customer opens an account.
- The customer goes to the check-out.
- The customer puts the item(s) in a basket or shopping cart.
- The customer pays for the product(s) with a credit or debit card.
- The customer goes to the website.
- The customer searches and/or browses the website.
- The customer chooses the item(s) to buy.
- The customer checks the order.

Listening

3



Listen and repeat these phrases.

- open an account
- go to the checkout
- put an item in the basket
- browse the website
- choose an item
- check the order

Speaking

4

Work in pairs. Use *firstly, secondly, then, after that, finally* to describe the steps in buying a product or service. Talk about something you have bought, like a DVD or an airline ticket.

Linking ideas

We use and to link sentences that describe similar actions or situations.	<i>I have a PC and a laptop at home.</i>
We use but to link sentences that describe different ideas/actions or situations.	<i>I use Amazon but I don't use iTunes.</i>
We use so to say that something has happened as a result of something.	<i>She's got a Kindle, so she doesn't buy many books now.</i>
We use or to link sentences that describe two possible actions or situations.	<i>Would you like tea or coffee?</i>

Reading 5 Complete this text with the words in the box.

and but or so

Companies want to reach more customers, (1) _____ they go online. It is easy to set up an online business (2) _____ it is difficult to design and develop a website that attracts a lot of customers. Hardware (3) _____ software provide basic infrastructure for E-commerce.

Networking, customer interface and payment solutions are very important parts of a company's E-commerce solution. Customers expect a fast and reliable service (4) _____ they will go somewhere else to buy things.

Vocabulary 6 Match the first half of the sentences 1–6 to the second half a–f.

- 1 Effective product information and
- 2 Customers can use their credit cards, PayPal or
- 3 We used a lot of promotions, so
- 4 I don't know how to buy online but
- 5 They want to buy a Cat 5e cable so
- 6 In E-commerce you can look at a picture of a product but

- a) I'll check online tutorials.
- b) electronic cheques to pay for transactions.
- c) you can't touch it.
- d) our sales improved a lot.
- e) they search the Internet.
- f) promotions attract customers.

Speaking 7 Work in small groups. Talk about an E-commerce website you know and like. Say what is good about it. Use *and*, *so*, *but* and *or*.

*Example: I like the B&Q website.
It has ... and*



Transaction security

Speaking 1 What are the potential security threats to online shopping? Share your ideas with the group.

Reading 2 Read this email. Answer these questions.

The email window shows the following details:

TO: All Employees
From: IT Director
Subject: Online transactions security

The body of the email reads:

We are developing new website security features. We will have a virtual private network with a firewall which will help stop cyber attacks on the network perimeter. The web application protection firewall (WAF) will protect our website from hacker attacks on customer contacts and login boxes. Secure Socket Layer (SSL) will create a secure connection for the users. We will have two-factor authentication (2FA). Website administrators will go through two layers of security before they access the hosting environment. This will prevent password leaks. All data will have encrypted backup to protect sensitive information.

I am sure the company will benefit from the new security measures.

Thank you

Hamda Banna

- 1 How many security features will the company have?
- 2 Which security feature will stop attacks on the company network?
- 3 What solution will protect customer contacts and login boxes?
- 4 What will protect private user information sent over the network?
- 5 What will the two-factor authentication prevent?
- 6 What will protect information?

Language

Future (*will* + infinitive)

We use **will** + infinitive without *to* to talk about plans for the future. (Something we think, believe or know will happen.)

*The new security system **will protect** our customer's better.*

*Hackers **won't/will not get** into the network.*

*When **will** we **change** to the new security system?*

*We'll/we **will** do it next month.*

*Will the new system **have** a firewall?*

*Yes, it **will**./No, it **won't**.*

Listening 3 Listen and repeat these sentences.

- 1 The company **won't** provide Internet access to all employees.
- 2 I'll do the security checks and then upgrade this week.
- 3 When **will** you finish the work?
- 4 Yes, I **will**.
- 5 No, she **won't**.

- Speaking** 4 Work in small groups. Talk about your organisation's plans or your own plans for the future. Ask and answer each other questions.

Example:

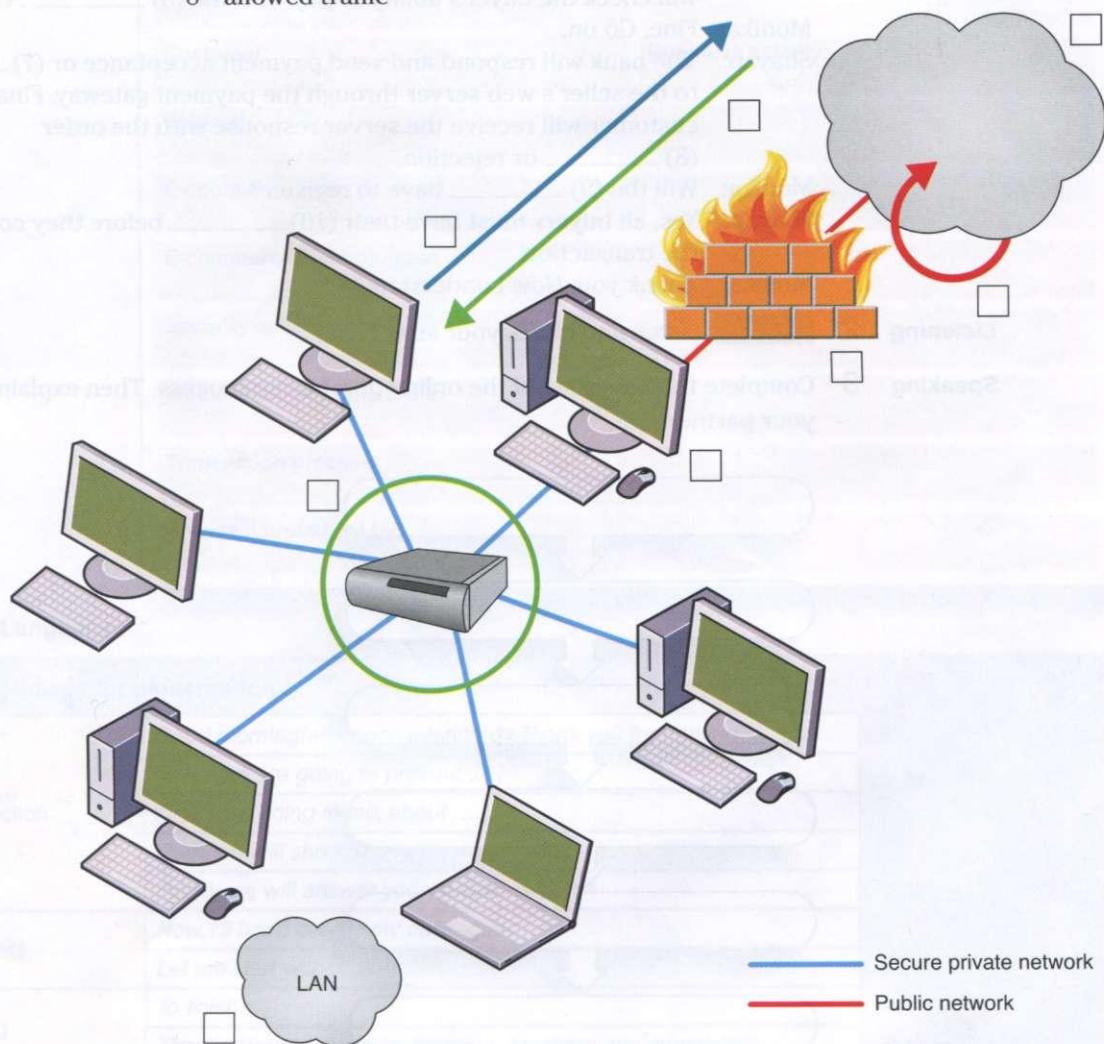
A: We'll open a new office in Singapore.

B: When will you open it?

A: Next year.

- Vocabulary** 5 Label the network diagram with the correct item 1–8.

- 1 the Internet
- 2 the local area network
- 3 the hardware firewall (with a router)
- 4 computers with firewall software
- 5 outbound traffic
- 6 inbound traffic
- 7 restricted traffic
- 8 allowed traffic



- Speaking** 6 You are setting up a new computer workstation with a network connection. Your client wants to use the set-up for online purchases, bank dealing and financial transactions securely. Talk about what security solution you will install. Present your solution to the group.

Online transactions

Reading

- 1** Shayan is telling Monika how customers will pay for something online on a new website. Complete this dialogue with the words in the box.

accounts bank completes confirmation customer First
gateway payment rejection web

Monika: Shayan, can you explain how a customer (1) _____ an online transaction?

Shayan: OK, it's very easy. (2) _____ the customer will place an order. The seller's (3) _____ server will confirm availability of the product and send a response. After that, the customer checks out and completes the (4) _____ instructions. Then the server will send a payment request to a payment (5) _____. The payment gateway will check the buyer's ability to pay with the (6) _____. OK?

Monika: Fine. Go on.

Shayan: The bank will respond and send payment acceptance or (7) _____ to the seller's web server through the payment gateway. Finally, the customer will receive the server response with the order (8) _____ or rejection.

Monika: Will the (9) _____ have to register?

Shayan: Yes, all buyers must have their (10) _____ before they complete the transaction.

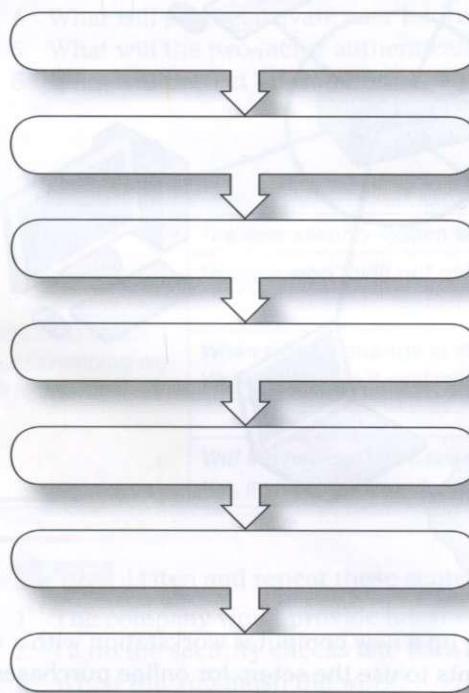
Monika: Thank you. Now I understand.

Listening

- 2** Listen and check your answers.

Speaking

- 3** Complete the flowchart of the online purchasing process. Then explain it to your partner.



Business matters

Writing

- 1 You work for SellOnline.com. The company develops E-commerce solutions for small businesses. Your client, Document Ltd, sells stationery. They sell lots of different types of product. Document Ltd wants to develop its online presence to reach customers more effectively. Complete the proposal template. Use these questions to help you.
- 1 What type of E-commerce will Document Ltd offer?
 - 2 What E-commerce technologies will Document Ltd use to attract customers?
 - 3 What security solutions will the company set up in order to protect both the customer and the company?
 - 4 What tools and features will the company website have?
 - 5 How will the customer complete transactions?

Proposal No. 2011/123/45	Date:
Customer:	Business activity:
Subject:	
E-commerce type:	
E-commerce technologies:	
Security solutions:	
Website features and tools:	
Transaction process:	
Proposal presented by:	

Language

Useful phrases for presentations

Introduction	Good morning/afternoon everybody. Thank you for coming.
	Today we are going to present
	First, I am going to talk about
	Then, we will show you
	Finally, we will answer your questions
Speakers	Now, I'll hand over to my colleague.
	Let me start with
Closing	To finish
	Thank you very much for listening. Are there any questions?

Speaking

- 2 Prepare and deliver a presentation for the marketing director of Document Ltd. Use your proposal from 1 to help you.

6

Network systems

- describe networks
- make recommendations and suggestions
- talk about the past
- talk about network range and speeds

Types of network

Speaking

- 1** 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

- 2**  34 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 questions.

- 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?


Reading

- 3** Read Katharina's email to Agatha. Complete this email with the words in the box.

equipment Internet LAN recommend
remote should VPN WAN



Dear Agatha

Following our meeting last week, please find my recommendations for your business. I think you (1) _____ set up a LAN, or Local Area Network, and a WAN, or Wide Area Network, for your needs. A (2) _____ connects devices over a small area, for example your apartment and the shop. In addition, you should connect office (3) _____, such as the printer, scanner and fax machine, to your LAN because you can then share these devices between users.

I'd recommend that we connect the LAN to a (4) _____ so you can link to the Internet and sell your products. In addition, I'd (5) _____ we set up a Virtual Private Network so that you have a (6) _____ access to your company's LAN, when you travel.

(7) _____ is a private network that uses a public network, usually the (8) _____, to connect remote sites or users together.

Let's meet on Friday to discuss these recommendations.

Best regards
Katharina

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.*

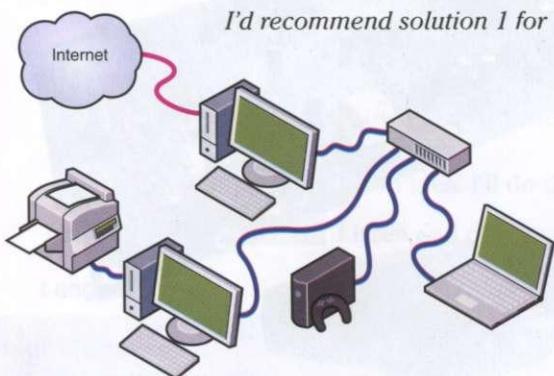
Why do you use encryption?

Because it's safer.

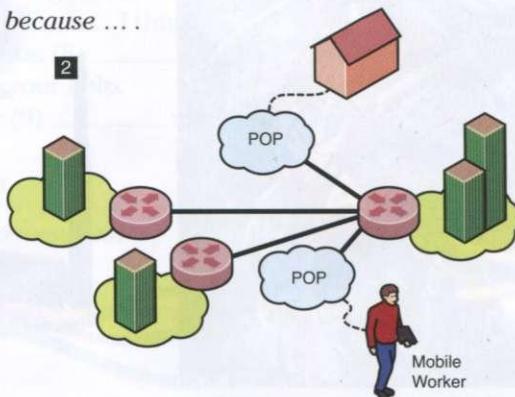
Speaking 4 Look at the three network solutions. What are the differences?

5 Which network solution would you recommend for a large corporation or organisation, a small business and a family home? Why?
I'd recommend solution 1 for ... because

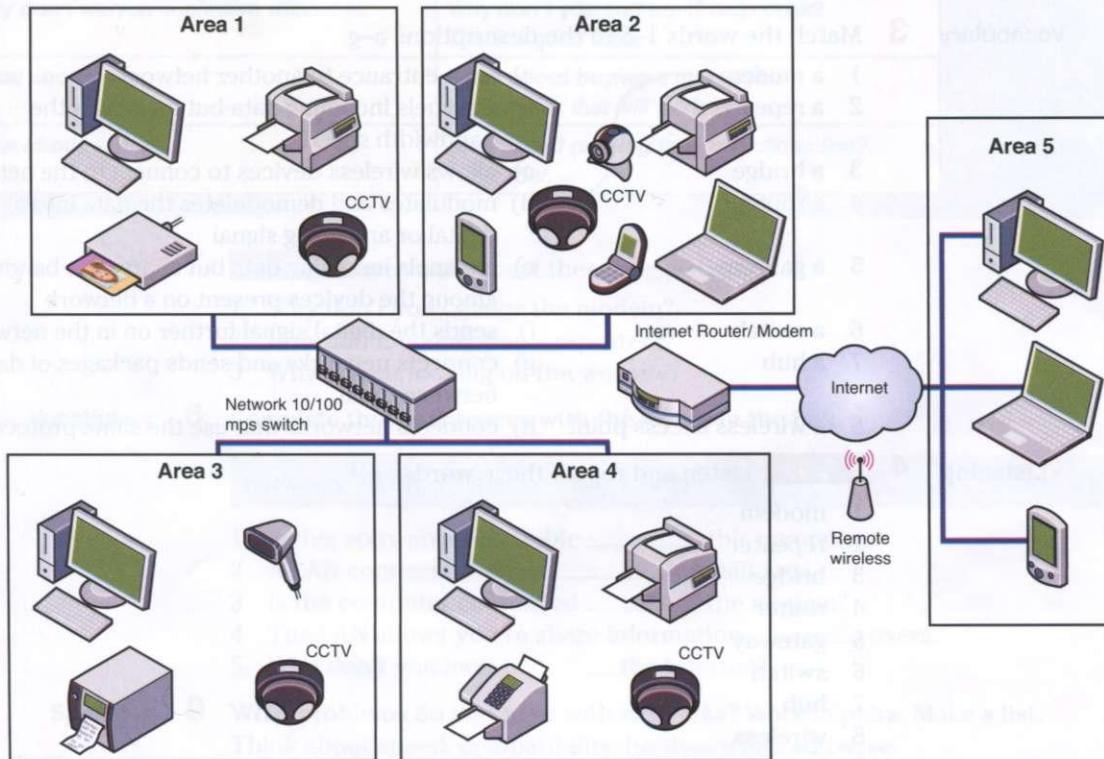
1



2



3

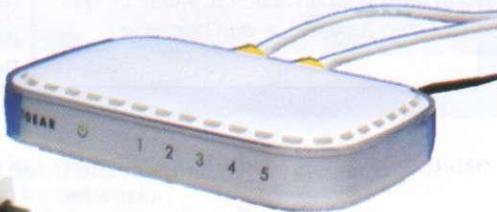
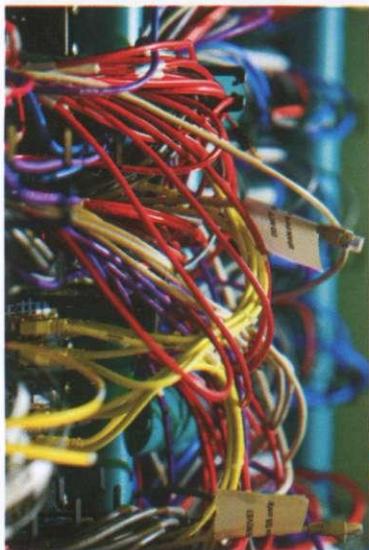


Writing 6 Write a description of the network solution you use at work or at home. Which of the three solutions in 4 is it most like? Why?

Networking hardware

Speaking

- 1 Which of the items below do you know? What are they? What do they do?
- 2 Work in pairs. Make a list of all the networking hardware you can think of. Compare your list with another pair.



Vocabulary

3

Match the words 1–8 to the descriptions a–g.

- 1 a modem
- 2 a repeater
- 3 a bridge
- 4 a router
- 5 a gateway
- 6 a switch
- 7 a hub
- 8 a wireless access point

- a) is an entrance to another network
- b) channels incoming data but maintains the bandwidth speed
- c) allows wireless devices to connect to the network
- d) modulates and demodulates the data into a digital or an analog signal
- e) channels incoming data but shares the bandwidth among the devices present on a network
- f) sends the digital signal further on in the network
- g) connects networks and sends packages of data between them
- h) connects networks that use the same protocol

Listening

4

35 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

Reading 5 Complete this dialogue with the words in the box.

about change devices necessary problem
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.

Listening 6  36 Listen and check your answers.

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.

7  37 Listen and repeat these suggestions.

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

Vocabulary 8 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?

Speaking 9 What problems do you have with networks? Work in pairs. Make a list.
Think about speed, compatibility, hardware and software.

10 Show your list to another pair. Ask for help and suggest solutions.

Example:

A: This software doesn't work with this

B: Why don't you ... ?

Talking about the past

Reading

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

1 The creation of the World Wide Web

2 The start of Facebook

3 The launch of Twitter

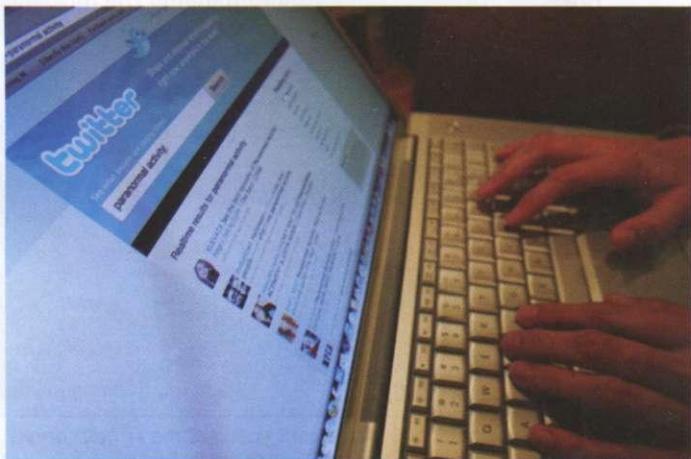
4 The beginning of MySpace

a) 2006

b) 1990

c) 2003

d) 2004



Speaking

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

Example: I use I spend about

Reading

3 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!'



1 When did Karl go to university?

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?

Language

Past simple (1)

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

Listening 4  **38** Listen and repeat these sentences.

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

Example:

- A: *What did you do last week?*
B: *I worked on the new network.*

6 Talk about what you did on your last day off.

Example:

- A: *What did you do on your day off?*
B: *I went to the gym.*

Language

Past simple (2)

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

Writing 7 Write three or four sentences about your own computing education and/or work up until now. Use the text in 3 to help you.

Speaking 8 Work in pairs. Ask and answer questions about your education and/or work.

Network range and speed

speaking

Listening 1



39

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: 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 (4) _____ feet or (5) _____ metres indoors and (6) _____ feet or (7) _____ metres outdoors.

Karoline: Thanks.

2



40

Listen and repeat these speeds and ranges.

- 1 77 kilobits per second
- 2 5 megabits a second
- 3 2 gigabits per minute
- 4 250 metres
- 5 40 feet

Speaking 3

Say these speeds and ranges.

- | | |
|-------------|----------------|
| 1 156 feet | 4 7,000 metres |
| 2 12 kbit/s | 5 95 Mbit/s |
| 3 4 Gbit/m | 6 65 Mbit/s |

4

Write down four speeds and ranges and dictate them to your partner.

Reading 5

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

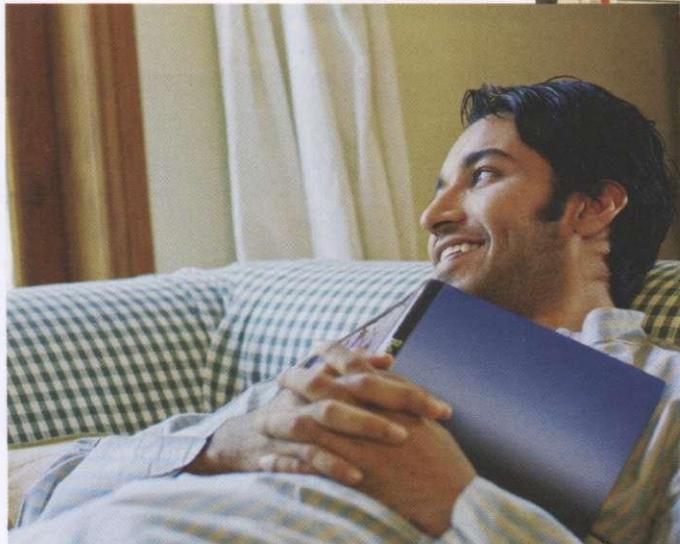
Bandwidth and latency are the measures of computer network speed, or data transfer rate. Bandwidth is the maximum throughput of data in bits per second. Some modems support 100 Gbit/s but speed depends on the hardware and software used. Latency is the delay that network creates during the transfer data. 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?

Business matters

Reading 1 Karam and Natasha work for the ComHelp company. The company provides IT services to customers. Karam and Natasha work in different areas of the city. Every week they write a report for their boss. Read their notes.

	Monday	Tuesday	Wednesday	Thursday	Friday
Natasha	called CISCO about a training do paperwork	went to British Council to install new software	attended the training on network cabling	day off	had a meeting with the team
Karam	went to TESCO to fix Cat6 cables	set up LAN in a paper factory	day off	installed an audio/video server in Welcare hospital	
You					



Writing 2 Complete the table in 1 with notes about what you did last week at work or college.

3 Write a report about what you did last week.

Example: Last week I ... On Monday I ... and ...

Speaking 4 Roleplay the following situation. Explain to your boss why you were not in the office.

Student A: Turn to page 68

Student B: Turn to page 78

7

IT support

- talk about results of an action
- write service reports
- explain the use of things
- deal with problems

Fault diagnosis

Speaking

- 1** Work in pairs. Make a list of computer hardware problems. Compare your list with another pair.



Reading

- 2** Read this dialogue and complete it with the words in the box.

checked	disconnected	found	go	switched	type	tight
unplugged	worked	working				

Haider: Hello, IT Help Desk.

Maryam: Hi, this is Maryam from Human Resources.

Haider: Hi, this is Haider. How can I help you, Maryam?

Maryam: I (1) _____ my computer off yesterday and today I can't turn it on.

Haider: What (2) _____ of computer do you have?

Maryam: I'm not sure. It's a desktop computer. It (3) _____ fine yesterday.

Haider: Don't worry. Have you (4) _____ the cable connections?

Maryam: No, I haven't. I can see some cables but I don't know which cable goes where.

Haider: Make sure all cables are (5) _____ and fully plugged in.

Maryam: Ok, give me a sec. Oh, I think I've (6) _____ the problem. I have one cable that is (7) _____. It's the power cable. Where does it go?

Haider: The power cable should (8) _____ in the three-pronged port on the computer.

Maryam: OK, done. Let me try now. It's (9) _____ fine. Sorry about that. Stupid of me.

Haider: Maybe the cleaners (10) _____ your PC by mistake last night.

Maryam: Maybe. Good, we've solved the problem. Thank you, Haider.

Haider: You're welcome. Have a good day.

Maryam: You too.

Listening

3

Listen and check your answers.



42 Listen and repeat these words.

- | | | |
|------------|-------------|----------------|
| 1 checked | 3 unplugged | 5 disconnected |
| 2 switched | 4 worked | |

Language

Present perfect

We use the **present perfect** tense to talk about recent actions (an action that has happened in the past and has a result in the present).

We use **have/has** + the past participle of the verb. (To form the past participle of **regular** verbs, we add **-ed**.)

Irregular past participles

I've unplugged the computer.

She hasn't finished the report.

Has she switched off the computer?

Yes, she has./No, she hasn't.

Have you checked the cable connections?

Yes, I have./No, I haven't.

clean **cleaned**

work **worked**

do **done**

be **been**

run **run**

see **seen**

have **had**

make **made**

- 5 Complete these questions with *have* or *has* and the correct form of the verb in brackets.



- 1 _____ you _____ (run) the computer in the battery mode?
- 2 How long _____ you _____ (have) the iPad?
- 3 _____ you _____ (charge) the battery?
- 4 _____ he _____ (open) the file?
- 5 _____ she _____ (enter) her username and password?
- 6 _____ they _____ (change) the Internet Service Provider?
- 7 _____ you _____ (check) the remaining disk space?
- 8 _____ you _____ (install) or _____ (uninstall) software recently?
- 9 _____ Dillip _____ (update) the drivers recently?

- 6 Use the present perfect to make positive or negative sentences.

Example: the screen/go/blank

The screen's gone blank.

- 1 the charger/stop/working
- 2 I/not/upgrade/the operating system
- 3 She/not/install/the updates
- 4 They/reinstall/the application
- 5 She/not/be able to fix the problem
- 6 I/defragment/your drive

Listening



43 Listen and repeat the questions in 5.

Speaking

Work in pairs. Practise a phone call to the company IT help desk.

Student A: Turn to page 69.

Student B: Turn to page 79.

Software repair

Listening

1

44 You work for SoftwareHelp.com as a helpdesk technician. Listen to three phone calls and complete the second and third tickets.

1

Help Desk ticket	
Date	5.05
Name	Bolek
Problem	Word file won't open in Office.
Contact	0504445553
Service Person	Alex

2

Help Desk ticket	
Date	
Name	
Problem	
Contact	
Service Person	

3

Help Desk ticket	
Date	
Name	
Problem	
Contact	
Service Person	

2

Work in pairs. Compare your notes in the three tickets. Is your information the same? Listen again and check.

Speaking

3

What other software problems do computer users often have? Discuss with the group.

Example: Computer users often ...

Reading 4 Complete the service reports for the IT support team. Use the information in the three tickets and the words in the box.

Check	file	install	move	resend	run
saved	version	version		viruses	

1

Service Report	
Date	6.05
Name	Bolek
Fault diagnosis questions	1 What (1) _____ of Office do you have? 2 What is the version of the (2) _____?
Possible solutions	1 If you have newer version, (3) _____ an Office patch. 2 Ask the sender to save the file in an older version and (4) _____ it.

2

Service Report	
Date	17.06
Name	Sara
Fault diagnosis questions	1 Have you (5) _____ the file? 2 Are there any messages about (6) _____ in the attachment?
Possible solutions	1 (7) _____ the attachment changes. 2 Look for the file in Internet Temporary Files.

3

Service Report	
Date	14.07
Name	Sylvia
Fault diagnosis questions	1 What (8) _____ of Office do you have? 2 Have you checked the Recycle Bin? 3 Have you (9) _____ disk defragmenter recently?
Possible solutions	1 If the file is in the Recycle Bin, (10) _____ it to a folder in My Documents. 2 If the file isn't in the Recycle Bin, install undeleted software.

Speaking 5 Work in pairs. Practise three phone conversations between the IT support team and Bolek, Sara and Sylvia. Use the information in the three tickets in 1 and the service reports.

Example:

A: Good morning. How can I help you?

B: My name is Bolek and I have a problem with opening a file.

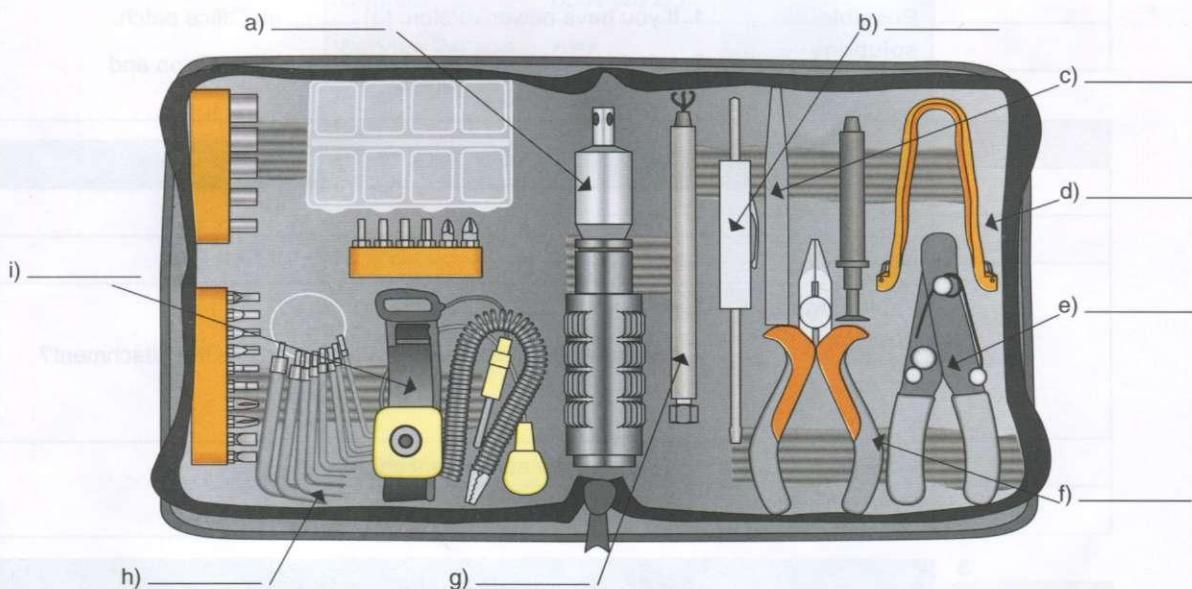
Hardware repair

Reading 1 Label the diagram with these tools (in bold) from the advertisement.

This kit has all the tools you'll require to fix a computer.

- There is a **reversible ratchet driver** with 20 different sized bits, a 6-inch flathead **screwdriver**, a reversible 1/8-inch mini screwdriver, a **hex key set** and 5-inch, long nose **pliers**.
- This set also has a 5-inch **wire-cutter/stripper**, an **I.C. insertion/extraction clipper**, a **three prong holder**, **tweezers**, a spare parts box with parts, an **anti-static wrist strap**, and a black zipper case.

The tools are demagnetized so your system and magnetic media is safe from any damage.



Listening 2 45 Listen and repeat the names of the tools in the kit.

Vocabulary 3 Match the tool 1–8 to its use a–h.

- 1 reversible ratchet driver
- 2 screwdriver
- 3 hex key
- 4 pliers
- 5 wire cutter/stripper
- 6 insertion/extraction clipper
- 7 tweezers
- 8 anti-static wrist strap

- a) used for inserting and removing fibre connectors in tight spaces
- b) used to prevent electrostatic discharge
- c) used for tightening and removing screws
- d) used for easy driving of screws and nuts
- e) used to hold small objects
- f) used to hold objects, cut or bend tough materials
- g) used to drive bolts and screws into a hexagonal socket
- h) used for cutting wire or removing the insulation

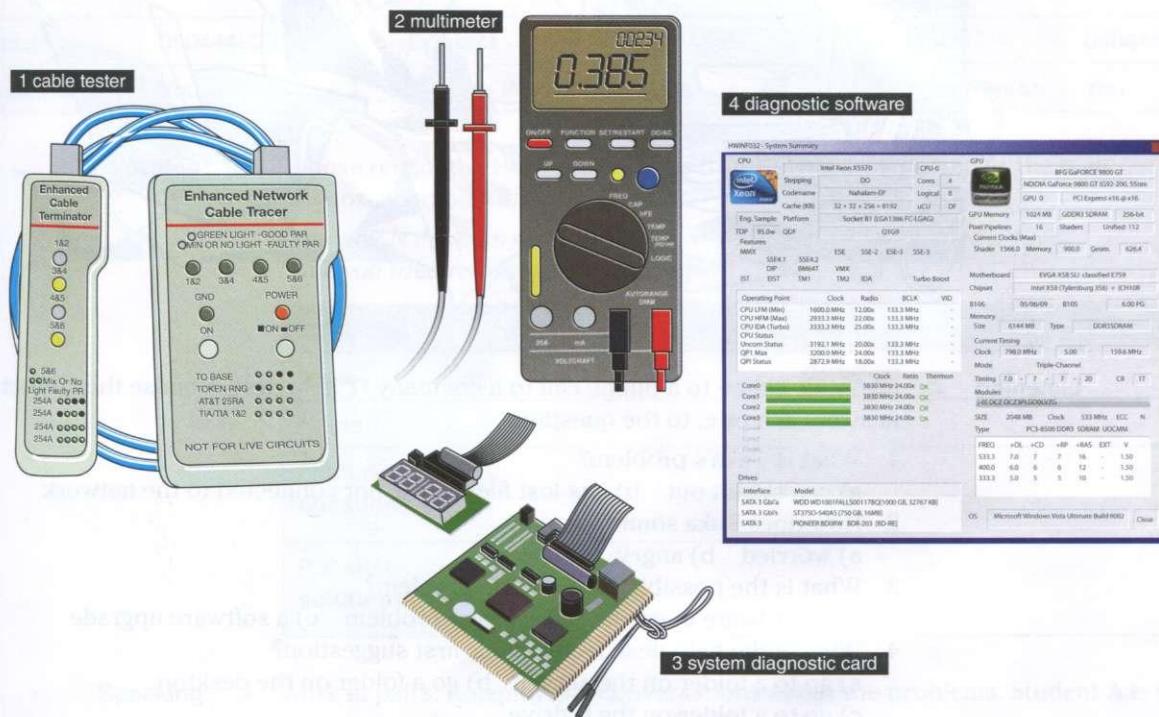
Language

Explaining the use of something

used/use for + verb with -ing.	This tool is used for tightening the screws. We use this tool for tightening the screws.
used/use to + verb	We use tweezers to hold small objects. Tweezers are used to hold small objects.

Speaking 4 Work in pairs. Talk about the tools you use with computers. Say what you use them for.

Reading 5 Match the diagnostic tools 1-4 to the descriptions a-d.



- It measures electrical properties such as AC or DC voltage, current and resistance. It troubleshoots electrical problems in batteries, power supplies, and wiring systems.
- It is an electronic device that checks the electrical connections in wired devices.
- It checks the system and identifies problems in different areas of the computer hardware. It usually checks the computer's memory, keyboard, monitor, system processor and hard disk speed.
- It is a device which tests the operation of the system as it boots up. It identifies system errors when the system is dead or unable to start from the hard disk or CD.

6 Now answer these questions.

- What is a multimeter used for?
- What is the cable tester used for?
- What is a system diagnostic card used for?
- What is the diagnostic software used for?

Customer service

- Speaking** 1 Look at the cartoon. How do people react when there is a problem with their computer? Why?



- Listening** 2 46 Listen to a phone call to a company IT help desk. Choose the correct answers a, b or c, to the questions.

- 1 What is Tuka's problem?
a) can't print out b) has lost files c) is not connected to the network
- 2 How does Tuka sound?
a) worried b) angry c) tired
- 3 What is the possible cause of the problem?
a) a hardware upgrade b) a server problem c) a software upgrade
- 4 What is the help desk technician's first suggestion?
a) go to a folder on the server b) go a folder on the desktop
c) go to a folder on the C drive
- 5 What is the help desk technician's second suggestion?
a) He will call back in five minutes. b) He will come down to Tuka's office.
c) He will get help from someone else.

- 3 Listen again and complete the technician's sentences.

1 How can I _____ you?

2 I _____.

3 I'm _____ we can find your file.

4 _____ go to the search box

5 Good _____.

- 4 47 Listen and repeat the technician's sentences.

- Writing** 5 Work in pairs. Write a short dialogue between an IT help desk technician and a colleague about a software or hardware problem. Use the phrases from 3.

- Speaking** 6 Work in pairs. Read your dialogues to the rest of the class.

Business matters

Reading 1 You work as an IT help desk technician. You are responsible for these tickets from colleagues in your company. Read the tickets. What are the problems?

Help Desk ticket	
Date	10.11
Name	Ben
Problem	I can't print out.
Contact	0504446231
Service Person	You

Help Desk ticket	
Date	11.11
Name	Clare
Problem	I can't connect to the network.
Contact	0504445558
Service Person	You

Help Desk ticket	
Date	12.11
Name	Simone
Problem	My computer fan is very noisy.
Contact	0504446553
Service Person	You

Writing 2 Choose one of the Help Desk tickets from 1. Write questions for the fault diagnosis and possible solutions.

*Example: Is there an error message on your screen? What does it say?
Have you tried restarting your computer?*

Service Report	
Date	
Name	
Fault diagnosis questions	
Possible solutions	

Speaking 3 Work in pairs. Roleplay the conversations about the problems. Student A is the help desk technician and Student B is the colleague.



- talk about security solutions
- express possibility and prohibition
- report events and incidents
- recommend improvement actions

Security solutions

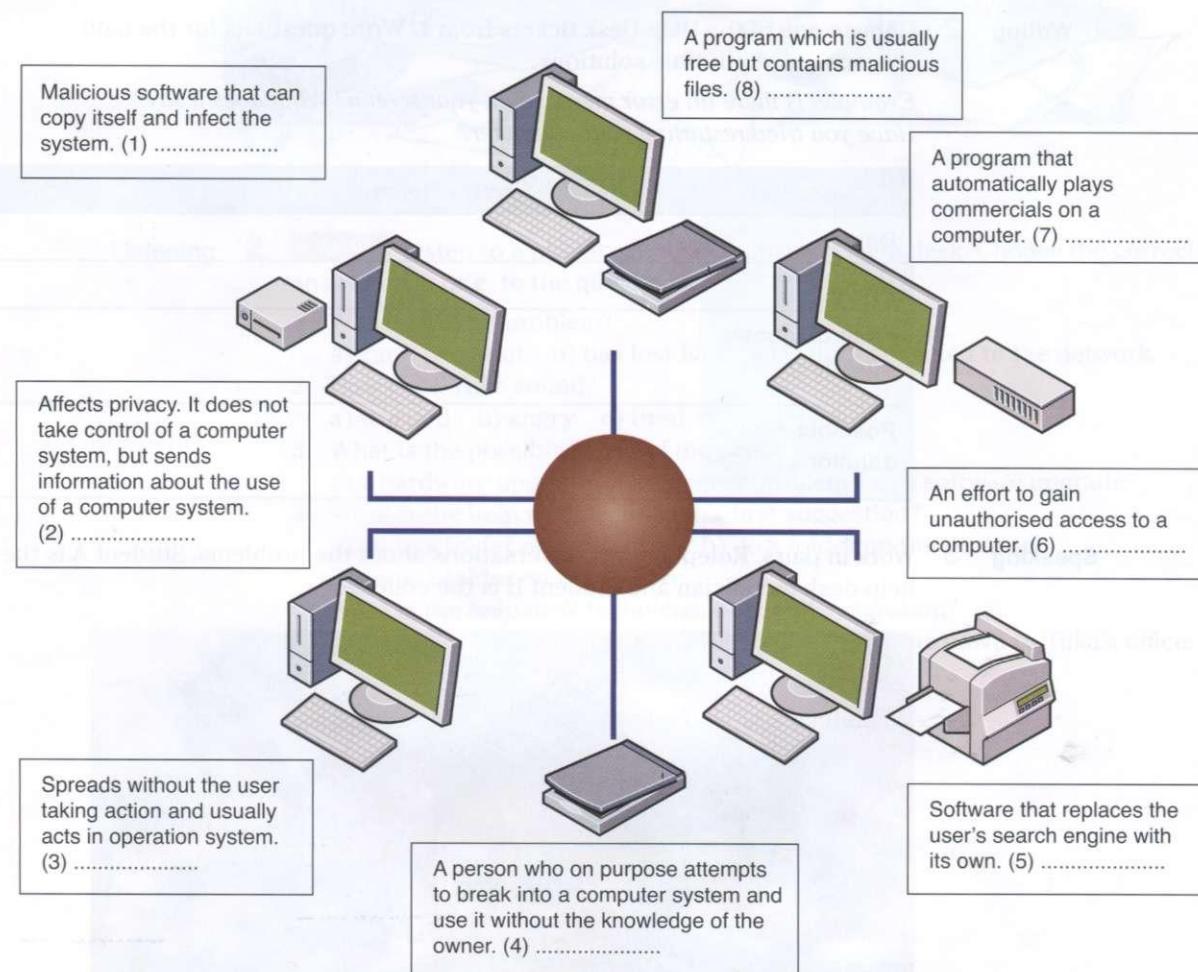
Speaking

1 Work in pairs. Make a list of all the different words about security threats and attacks you can think of.

Reading

2 Read the descriptions 1–8. Match the words in the box to the descriptions.

adware	hacker	browser hijacker	malware attack	spyware
Trojan	virus	worm		



Speaking

3 Have you ever had a computer security threat? Has anyone ever hacked into your computer system? Use the words and phrases in 2 to describe what happened.

4 Work in small groups. Discuss what you can do to stop these problems.

Vocabulary 5 Match the security solution 1–5 to its purpose a–e.

- | | | |
|---|--|--|
| 1 a firewall | A curly bracket groups items 1 through 5 on the left and items a through e on the right. | a) prevents damage that viruses might cause |
| 2 antivirus software | | b) make sure only authorised people access the network |
| 3 authentication | | c) checks the user is allowed to use system |
| 4 username, password and biometric scanning | | d) blocks unauthorised access codes |
| 5 encryption | | e) protects the system from public access |

Listening 6  48 Listen to this dialogue and answer the questions. Ludek has asked his IT expert friend, Ales, for help.

- 1 Why does Ludek want Ales to check his laptop?
- 2 Why is Ludek worried that he may lose his project?
- 3 What does Ales think has happened to Ludek's laptop?
- 4 Why does he recommend Ludek installs an anti-spyware software?
- 5 Why is it important to have a network access password?
- 6 What will Ales do for Ludek?

Language

Expressing possibility

We use **may/might + infinitive** without *to* to talk about things that are possible now or in the future.

*You **may** have a virus on your computer.*

*The program **might** not run properly.*

Speaking 7 Work in pairs. Practise giving advice to a non-IT expert on protecting their computer.

Example:

Non-IT expert: What should I do to stop ... ?

*Expert: You should It **may/might***

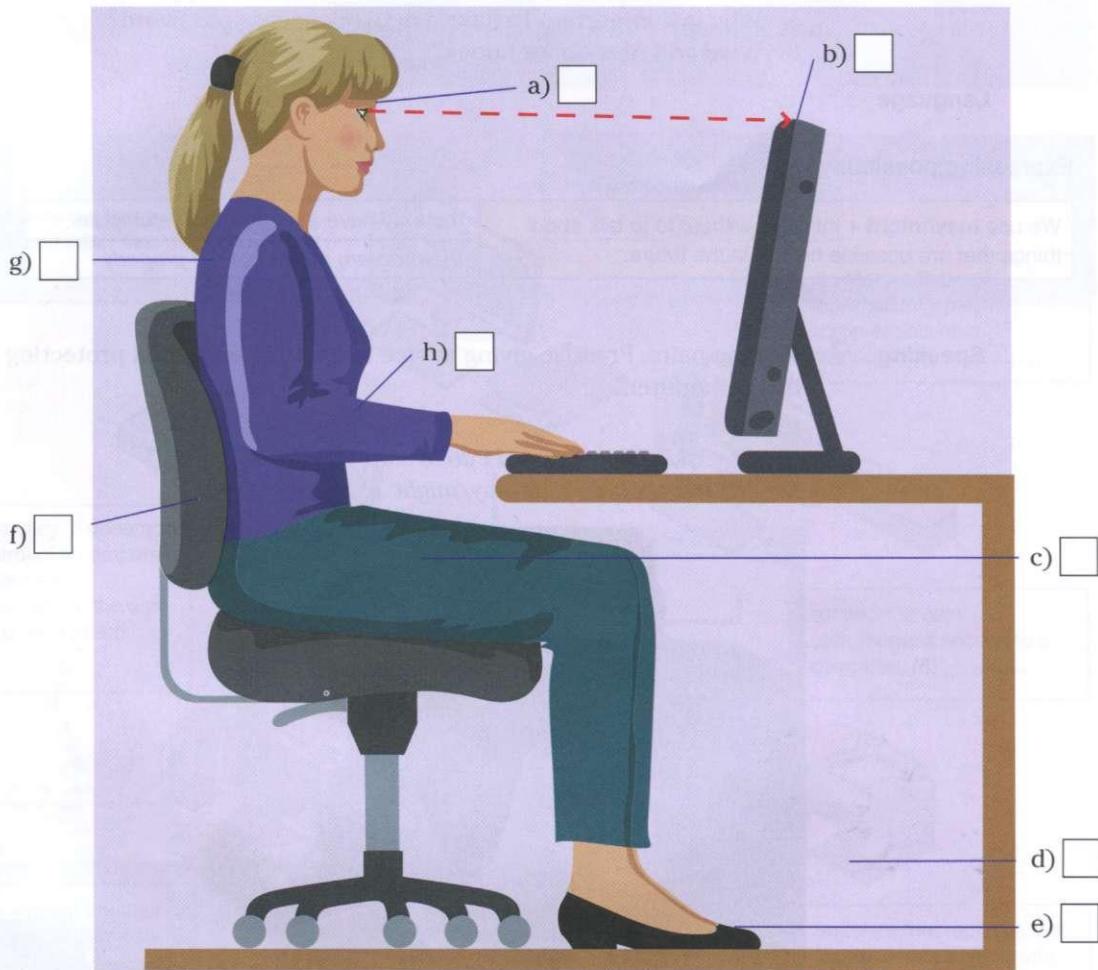


Workstation health and safety

Speaking 1 Work in pairs. Make a list of computer health and safety problems. Compare your list with another pair.

Vocabulary 2 Label this diagram with the advice 1–8.

- 1 There should be clearance under the work surface.
- 2 You should have your feet flat on the floor.
- 3 Make sure your forearms and hands are in a straight line.
- 4 Your lower back should be supported.
- 5 Your screen should be positioned to avoid reflected glare.
- 6 Keep your shoulders relaxed.
- 7 You should have your thighs tilted slightly.
- 8 Make sure the top of the screen is at or slightly below eye level.



Speaking 3 Work in pairs. Answer these questions about the advice in 2.

- 1 Do you always follow the advice?
- 2 What other things can you recommend for good computer use?
- 3 Have you had (or given) computer use training?

4 Work in pairs. Practise giving instructions to each other.

Example: Make sure you

Reading 5 Read this list of rules for using a company computer. Which ones do you follow? Why?

COMPUTER DOS AND DON'TS

Things you should do:

- Run Scandisk regularly to check and repair your file systems.
- Connect all peripherals before you switch the computer on.
- Keep your keyboard and screen clean.
- Keep CDs and DVDs in covers and hold them by the edge when using.
- Always shut down your laptop computer first if you need to move it.
- Secure your hardware from sudden power surges.

Things you should not do:

- Do not disconnect the keyboard, mouse, monitor, printer or any peripheral if the PC is on.
- Don't eat food or drink near the keyboard and computer. Don't blow smoke over your PC.
- Don't move or lift your desktop computer when it's on. Don't drop your laptop.
- Don't clean your hardware with a household polish or cleaner.
- Don't turn your computer off for lunch breaks.
- Don't load unauthorised software.

Vocabulary 6 Match the verb 1–5 with the noun a–e.

- | | |
|-------------------|-----------------|
| 1 switch/turn off | a) software |
| 2 eat | b) software |
| 3 connect | c) peripherals |
| 4 load | d) food |
| 5 run | e) the computer |

Speaking 7 Work in pairs. Discuss what other rules you can add to the two lists in 5. Compare your list with another pair.

8 What is the most important rule you can give about computer use? Work in pairs. Practise giving advice to each other.

Example: Always ... / You should

Security procedures

Speaking 1 What security procedures are you familiar with? Make a list and share it with the group.

Reading 2 Read this text on security and match the headings in the box with the paragraphs 1–5.

Data transfer and backup Email and network usage
Password recommendations Reporting IT security incidents
Safety security requirements

Systems and network security

All employees must follow security and safety procedures approved by the management.

- 1 _____
Only install and use software that the management has approved. Install the latest antivirus and antispyware tools.
Keep current with security software updates and patches.
Follow office health and safety standards.
- 2 _____
Choose a password that is difficult to guess: use between 6 and 8 characters, have letters in upper and lower case and intermix letters, numbers, and punctuation marks. Keep your password private. Change your password every 9 weeks.
- 3 _____
Configure your email software to use secure protocols. Use company official e-mail software only. Always double check that you are sending your message to the right recipient. Do not send sensitive data over the network. Use mail encryption to send sensitive data. Do not download unknown files or files for private use, such as movies and music.
- 4 _____
Transfer files via a secure connection. Back up files regularly on the server in your homefolder. Do not use external drives.
- 5 _____
Employees must notify their supervisor or IT help desk about any damage, misuse, irregularities or security breaches.

Vocabulary 3 Match the verb 1–6 with the noun a–f.

- | | |
|------------|-----------------|
| 1 transfer | a) protocols |
| 2 install | b) software |
| 3 follow | c) procedures |
| 4 use | d) files |
| 5 notify | e) an incident |
| 6 report | f) a supervisor |



Speaking 4 What are the most important procedures to follow in the document in 2? Which procedures do people sometimes not follow?

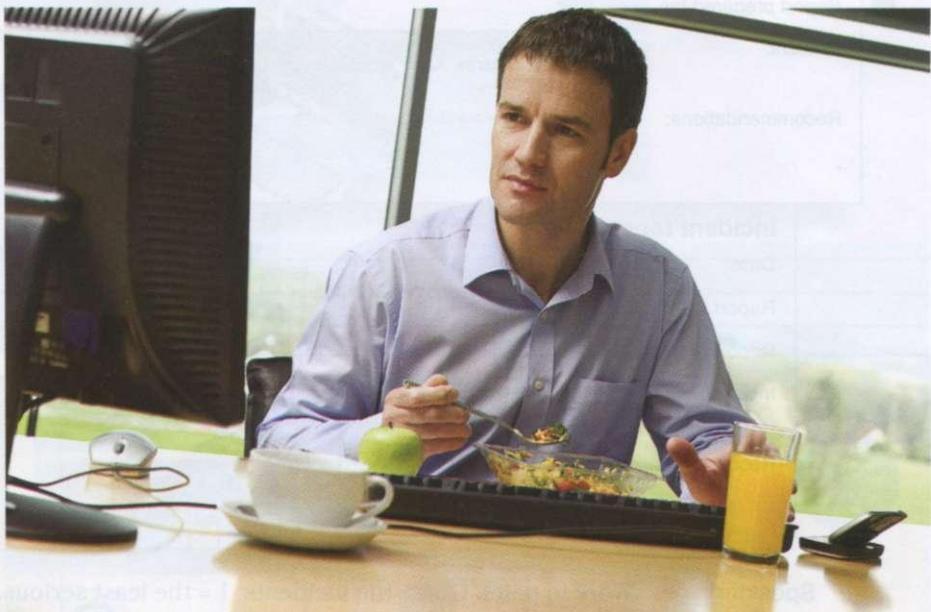
Language

Expressing prohibition

a rule or requirement (We use these when it is necessary not to do this or to tell someone not to do something.)	You mustn't give your password to anyone. You aren't allowed/permited to share your password with anyone.
a strong recommendation (We use this to give advice.)	You shouldn't use your date of birth in your password. (It is not a good idea to do this)

Listening 5  49 Listen and repeat these sentences.

- 1 You mustn't put your cup of coffee on the computer.
- 2 You mustn't work without breaks.
- 3 You aren't allowed to smoke in the office.
- 4 We aren't allowed to send private emails.
- 5 You shouldn't eat lunch at your desk.



Speaking 6 Work in small groups. Talk about the computer regulations in your company or college. Use *you mustn't*, *you aren't allowed to* and *you shouldn't*.

Writing 7 Write a document listing the regulations you talked about in 7. Use these headings.

Personal use of computers

Health and safety

Security

Reporting problems

Reporting incidents

Speaking 1 Have you ever reported a security incident? What was it about?

Reading 2 Read these five IT incidents in a company.

A

Incident report

Date: 02.05
Report for: Miley O'Hara
Report prepared by: Ann Greshon
Incident: teacher has accessed the database to change student's grade
Recommendations:

Incident report

Date: [REDACTED] Incident: employee has changed the printer settings

Report for: [REDACTED] Recommendations:

Report prepared by: [REDACTED]

Incident: employee's children have installed games on company's laptop

Recommendations:

B

C

Incident report

Date: [REDACTED] Incident: employee has downloaded a movie

Report for: [REDACTED] Recommendations:

Report prepared by: [REDACTED]

Incident: employee has installed P2P software

Recommendations:

E

Speaking 3 Work in pairs. Grade the incidents: 1 = the least serious. 5 = the most serious. Then compare your grades in small groups.

Writing 4 Write a short report to the IT supervisor on the most serious incident. You will need to give recommendations on how to deal with the incident.

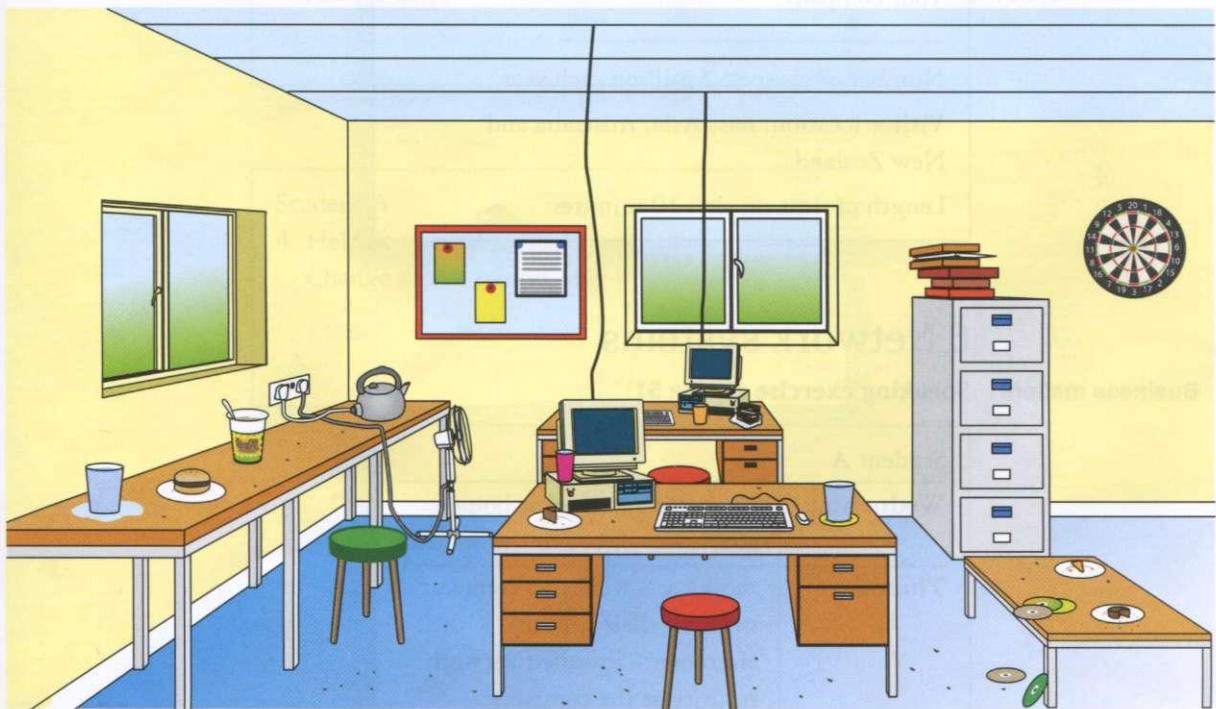
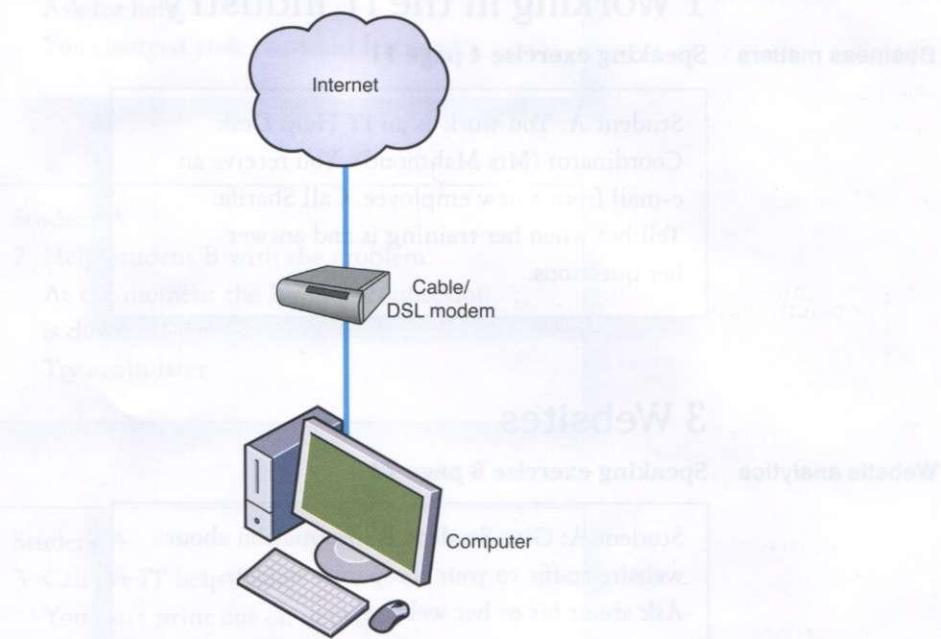
Incident report

Date: [REDACTED]

Business matters

Reading

1 Work in pairs. You are systems safety coordinators. You have already completed two inspections of the IT systems in QuickFix Ltd. The first inspection was about network security and the second about health and safety in a workplace. Your investigation shows that the company has very poor security and safety systems. Look at the pictures and make notes.



Speaking

2 Based on the information in the pictures and your notes, present your report after the inspections. Student A: talk about health and safety in the workplace. Student B: talk about network security.

Partner files: Student A

1 Working in the IT industry

Business matters

Speaking exercise 4 page 11

Student A: You work as an IT Help Desk Coordinator (Mrs Mahmoud). You receive an e-mail from a new employee. Call Sharifa. Tell her when her training is and answer her questions.

3 Websites

Website analytics

Speaking exercise 8 page 23

Student A: Give Student B information about website traffic to your company's website. Ask about his or her website.

Your company:

Number of visitors: 2 million each year

Visitor location: East Asia, Australia and New Zealand

Length of time on site: 10 minutes

6 Network systems

Business matters

Speaking exercise 4 page 51

Student A	
Wednesday	morning – worked at home afternoon – went to the dentist
Thursday	morning – went to a company to check their network afternoon – installed network security at the company

7 IT support

Fault diagnosis Speaking exercise 8 page 53

Student A

1 Call the IT help desk.

You cannot access mail server.

Ask for help.

You changed your password last week.

Student A

2 Help Student B with the problem.

At the moment the Internet connection
is down.

Try again later.

Student A

3 Call the IT help desk.

You can't print out on network.

Ask for help.

Student A

4 Help Student B with the problem.

Change screen resolution?

Audio script

UNIT 1 Working in the IT industry



[N = Natasha; K = Khalid]

1 N: Hi, my name's Natasha.

K: Pleased to meet you. I'm Khalid Ali.

N: Pleased to meet you, too.

[P = Phillip; A = Ahmed]

2 P: Good morning. What's your name?

A: I'm Ahmed. And you are?

P: My name's Philip. Nice to meet you.

[T = Tim; A = All; I = Ingrid; L = Linda]

3 T: Hi everybody, this is Ingrid.

A: Hi!

T: Ingrid, this is Ahmed, Linda, Mohammed and Mansoor.

I: Nice meeting you all.

L: Likewise.

T: Welcome to the team and good luck.



[Ka = Kathryn; K = Karim]

Ka: Karim, what do you do?

K: I'm a network administrator. Who do you work for?

Ka: I work for CISCO. I'm a system analyst there. Where are you from, Karim?

K: I'm from Kuwait. I work for Microsoft there. And where are you from, Kathryn?

Ka: I'm from the UK but now I live in Qatar. Do you know where Glenda's from?

K: She's from the US.

Ka: And what's her job?

K: She works for IBM. Her job is to set up new systems.



I'm, You're, She's, He's, It's, We're, They're



5

1 Hi, I'm Karl. I'm a software developer. I design and develop computer games. Thank you.

2 Good afternoon everyone, I'm Heba. I'm a system analyst. I solve computer problems. Nice to meet you all.

3 Hi, My name's Wojtek. I'm a database administrator. I analyse and present data. Thank you.



6

[A = Ahmed; B = Betty; M = Milo]

A: Where do you work, Betty?

B: I work for Dell in Dubai. What about you?

A: I work for HP in Budapest. What do you do, Milo?

M: I'm a software developer. I work for Microsoft in Prague.

B: Milo, do you know Frida?

M: Yes, I do. What do you want to know?

B: Where does she work?

M: She works with me in Prague. She designs websites for E-commerce.

A: I see. Right, let's go. The workshop starts in five minutes.



7

1 Where do you work?

2 What about you?

3 What do you do?

4 What do you want to know?

5 Where does she work?

8

- [P = Penelope; D = Don]
- P: Hi, Don. How are you?
- D: I'm fine, thanks, Penelope. And you?
- P: I'm OK. Bit tired from the flight.
- D: Right.
- P: What workshop do you want to attend today, Don?
- D: I want to go to the CISCO network security workshop.
- P: Sounds interesting. What time does it start?
- D: It starts at 9.15.
- P: And when does it finish?
- D: It finishes at 4.00 in the afternoon.
- P: Well, I want to attend the Microsoft Windows Applications workshop. It begins at 8.30 am and ends at 6.00 pm. But they have two breaks, at 10.30 and 12.45.
- D: That's good.
- P: Hope you enjoy your session.
- D: You too. See you around.

9

- 1** 7.05
- 2** 6.45
- 3** 8 o'clock
- 4** 10.45
- 5** 4.35
- 6** 2.15
- 7** 12 o'clock
- 8** 9.50

10

- 1** It finishes at 5.00.
- 2** It ends at 8.00.
- 3** It starts at 6.00.

11

- [A = Andrei; B = Bob]
- A: Bob, can you help me, please?
- B: Sure.
- A: I don't understand this acronym. What does it stand for?
- B: Let me see. W3. I'm not sure. Maybe WWW, the World Wide Web.
- A: OK. What does P2P stand for?
- B: It stands for person-to-person.
- A: OK. What does IP mean?
- B: It means Internet Protocol.
- A: How do you spell 'Protocol'?
- B: p - r - o - t - o - c - o - l.
- A: Thanks.
- B: You're welcome.

12

- a h j k
b c d e g p t v z
f l m n s x z
i y
o
q u w
r

UNIT 2 Computer systems

13

- [B = Bob; D = Daisy]
- B: What do you think? Which laptop is better for the sales team?
- D: I'm not sure. This computer has a bigger memory and I think it has a better processor.
- B: And the other one?
- D: Well, it is smaller.
- B: And lighter.
- D: Yes, you're right. Lighter and smaller.
- B: But the bigger one is cheaper.
- D: So what is our decision?
- B: I'm not sure. Let's go for a coffee and discuss this again.

 14

- 1 lighter
- 2 more efficient
- 3 longer
- 4 wider
- 5 heavier
- 6 faster
- 7 darker
- 8 softer
- 9 harder
- 10 more durable

 15

[T = Tim; S = Simone]

- T: What do you think about these three photo imaging packages?
- S: It's a difficult choice. All three are very good but they have different strengths.
- T: I agree.
- S: Serif Image Plus has the best image correction.
- T: OK.
- S: But Magic Extreme has the fastest processing of images.
- T: You're right. Also, Serif has the best special effects. But what about Snap Pro?
- S: Well, it has the best dubbing options.
- T: And Snap Pro is the best for burning photos.
- S: I'm not sure. Serif has the most efficient compression.
- T: Which is the most expensive?
- S: Oh, Serif Image Plus.
- T: And the cheapest?
- S: Snap Pro.
- T: Let's get Snap Pro then.
- S: I'm still not sure!

 16

- 1 We've got the best software.
- 2 Does it have the most reliable anti-virus software?
- 3 She has the cheapest computer.
- 4 They haven't got the latest version.
- 5 Do you have the fastest processor?
- 6 Has it got Windows?
- 7 They have the latest software.
- 8 It has the biggest screen.

 17

- [P = Paul; B = Brinitha]
- P: Hi, Brinitha.
- B: Hi, Paul.
- P: How's it going?
- B: Fine, fine.
- P: What are you doing at the moment?
- B: Oh, I'm installing Nero.
- P: How are you getting on?
- B: Well, I'm setting up a network. I'm using Microsoft Server.
- P: Right. Where is Jackie today? Do you know?
- B: Yes. She is on a training course today. She's learning about the new database system.
- P: What about Mary and Imran? Where are they?
- B: They aren't coming in today. They have a day off.

 18

- 1 What are you doing now?
- 2 Are they setting up the network?
- 3 She's working at home today.
- 4 I'm not installing the software.
- 5 We're not using Word.

UNIT 3 Websites 19

- 1 Which websites do you use?
- 2 Why do you use Wikipedia?
- 3 What do you use CNN for?
- 4 When does she use CNN?

 20

[S = Sarah; G = George]

- S: George, I need some information about our website.
- G: OK, what do you need to know?
- S: Well, I need some information about website traffic, you know, external visits to our website.
- G: OK.
- S: Could you do a report for me?
- G: Sure. When do you need it by?
- S: Er, tomorrow morning, I'm afraid. It's for the finance director.
- G: OK, what do you need to know exactly?
- S: Well, the number of visitors to our website last month, their movements and actions on the website, and where they're from.
- G: OK, I can do that.
- S: Thanks very much indeed.

21

Network systems

- 1 How many people visit the site?
- 2 Where do they go on the website?
- 3 How long do they spend on the website?

22

- 1 30,000
- 2 700,000
- 3 10,000,000
- 4 100,000
- 5 80,000

UNIT 4 Databases

23

- [C = Chris; T = Tim]
- C: Tim, could you help me a moment, please?
 T: Sure. What's the problem?
 C: I need some information about a book budget from the database.
 T: OK.
 C: But I don't know how to get it.
 T: No problem.
 C: So what do I do first?
 T: Enter your name and password and press enter.
 C: Erm ... ?
 T: You have got a password?
 C: Erm, I can't remember it.
 T: Use mine. Type in t evans, that's t - e - v - a - n - s, then snavet s - n - a - v - e - t.
 C: OK.
 T: Now press Enter. Now what is the name of the book?
 C: Basic French.
 T: OK. Type in that in the title field in the first column. Now Press Find. There it is. OK, budget. Click on Publishing and scroll down to Plant Costs and click on that.
 C: Good. There's the budget in the second row. Thanks, Tim.
 T: No problem.

24

- 1 Could you help me please?
- 2 Please could you help me?
- 3 Would you help me with this software?
- 4 Please could you explain how to do that?
- 5 Please would you give me your password?

25

25

- [I = IT expert; C = Colleague]
- I: Right, the first step in the process is you gather the raw data which you want to process. That's called collection. OK?
 C: Yes, data collection.
 I: Good. The second step is you create categories to organise the data into relevant groups. We call that sorting. Understood?
 C: Sorting, right.
 I: Then we arrange and systemise the data. That's coding. Got that?
 C: Yes, I think so. The third step is coding.
 I: After that, we enter the data into a system. That's entry.
 C: OK.
 I: Then, we clean the data and double-check for faults and inconsistencies. That's the validation part of the process.
 C: Fine. Validation.
 I: Finally we format and arrange the data so that it can be analysed. That's tabulation. All right?
 C: Thanks very much.
 I: No problem.

26

26

- 1 entry
- 2 collection
- 3 tabulation
- 4 validation
- 5 sorting
- 6 coding
- 7 gather
- 8 create
- 9 arrange
- 10 enter
- 11 double-check
- 12 format

27

27

- 1 emerging technology
- 2 cloud computing
- 3 data storage
- 4 hard drive
- 5 external drives
- 6 back-up providers

- [T = Tim; S = Sandy]
- T: Sandy, could you give me some advice on storage devices?
- S: Sure. How can I help?
- T: I'm a bit worried about my computer at home.
- S: Right.
- T: I've got lots of music and photos on my computer and I think I should back them up.
- S: I know what you mean.
- T: What should I buy?
- S: I'd recommend an external hard drive. That's what I've got at home. How much can you spend?
- T: \$200.
- S: That should be fine. You should be able to get something good for that. Oh, one thing: I'd really recommend you get one that backs up automatically from your computer when it is connected.

UNIT 5 E-commerce

- [I = Interviewer; D = David]
- I: David, tell me, how much of your business is online now?
- D: Not much, really. Only about 7%.
- I: Why's that, do you think?
- D: Well, most of our customers buy our cleaning products in supermarkets when they buy their food. And most people go out to buy their food. They go to the supermarket.
- I: Do you think this will change?
- D: Probably but slowly. Last year our online buying was about 5% of our business.
- I: So, it is growing a little.
- D: Yes, but only a little. And in future our customers will still buy our products from the supermarkets on their websites. I don't think they will buy online from us direct.

- 1 not a lot of time
- 2 too much work
- 3 only a little money
- 4 a few computers
- 5 a lot of memory

- 1 open an account
- 2 go to the check-out
- 3 put an item in the basket
- 4 browse the website
- 5 choose an item
- 6 check the order

- 1 The company won't provide Internet access to all employees.
- 2 I'll do the security checks and then upgrade this week.
- 3 When will you finish the work?
- 4 Yes, I will.
- 5 No, she won't.

- [M = Monika; S = Shayan]
- M: Shayan, can you explain how a customer completes an online transaction?
- S: OK, it's very easy. First, the customer will place an order. The seller's web server will confirm availability of the product and send a response. After that, the customer checks out and completes the payment instructions. Then the server will send a payment request to a payment gateway. The payment gateway will check the buyer's ability to pay with the bank. OK?
- M: Fine. Go on.
- S: The bank will respond and send payment acceptance or rejection to the seller's web server through the payment gateway. Finally, the customer will receive the server response with the order confirmation or rejection.
- M: Will the customer have to register?
- S: Yes, all buyers must have their accounts before they complete the transaction.
- M: Thank you. Now I understand.

UNIT 6 Network systems

34

[A = Agatha; K = Katharina]

- A: Hi, Katharina. It's good to see you again. How are you?
K: I'm fine. And you?
A: Fine, thanks.
K: I'm really glad to hear about your success.
A: Thank you.
K: So how can I help you?
A: I wanted to see you because I need your advice. We think we should offer our products and services online to increase our market share. What do you think?
K: That's a great idea. You should definitely do that.
A: Good. So what exactly should I do?
K: I'd recommend that you set up an E-commerce flower shop.
A: OK.
K: I'll send you an e-mail with some recommendations.
A: Oh, thank you very much. We ought to be ready for Mother's Day.
K: In that case, I'd suggest we start right away. Let me ask you some questions ...

35

- 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

36

- [B = Boris; A = Ahsan]
- B: I have a problem with the network download speed. What can you suggest?
A: Why don't you change the hub?
B: I don't think that will work. The hub is fine.
A: OK. How about adding a repeater then?
B: Hmm, I'm not sure it will help. It's not a problem with the signal strength.
A: OK, then you should check the cables and network devices to make sure that they are compatible with your network.
B: What about changing the modem?
A: I don't think it's necessary. I think it's a problem with the bridge, switch or the router. You should look at the specifications.
B: OK, I will. Thanks for your help.
A: Why don't you check user recommendations on the internet as well?
B: Good idea. I'll do that.

37

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

38

- 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?

39

- [K = Karoline; S = Sam]
- K: How do you describe network speed?
S: In bits, kilobits, megabits and gigabits. They describe network speed. For example, dial-up connections allow 56 kilobits per second and DSL from 512 kilobits per second to 3 megabits per second.
K: OK. I've got that. What about the range?
S: 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 150 feet or 46 metres indoors and 300 feet or 92 metres outdoors.
K: Thanks.

 40

- 1 77 kilobits per second
- 2 5 megabytes a second
- 3 2 gigabytes per minute
- 4 250 metres
- 5 40 feet

UNIT 7 IT support

 41

[H = Haider; M = Maryam]
 H: Hello, IT Help Desk.
 M: Hi, this is Maryam from Human Resources.
 H: Hi, this is Haider. How can I help you, Maryam?
 M: I switched my computer off yesterday and today I can't turn it on.
 H: What type of computer do you have?
 M: I'm not sure. It's a desktop computer. It worked fine yesterday.
 H: Don't worry. Have you checked the cable connections?
 M: No, I haven't. I can see some cables but I don't know which cable goes where.
 H: Make sure all cables are tight and fully plugged in.
 M: Ok, give me a sec. Oh, I think I've found the problem. I have one cable that is unplugged. It's the power cable. Where does it go?
 H: The power cable should go in the three-pronged port on the computer.
 M: OK, done. Let me try now. It's working fine. Sorry about that. Stupid of me.
 H: Maybe the cleaners disconnected your PC by mistake last night.
 M: Maybe. Good, we've solved the problem. Thank you, Haider.
 H: You're welcome. Have a good day.
 M: You too.

 42

- 1 checked
- 2 switched
- 3 unplugged
- 4 worked
- 5 disconnected

 43

- 1 Have you run the computer in the battery mode?
- 2 How long have you had the iPad?
- 3 Have you charged the battery?
- 4 Has he opened the file?
- 5 Has she entered her username and password?
- 6 Have they changed the Internet Service Provider?
- 7 Have you checked the remaining disk space?
- 8 Have you installed or uninstalled software recently?
- 9 Has Dillip updated the drivers recently?

 44

Customer 1

Today is 5 May. Please leave your message after the tone.

Hi. My name is Bolek. I've received a Word File but it won't open in Office. Can you help? My contact number is 050 444 5553. Thank you. *Thank you for your call. The service person is Alex.*

Customer 2

Today is 16 June. Please leave your message after the tone.

Hi, my name is Sara. I've lost a file that I opened from an attachment. Please help. My contact number is 055 8214328. Thank you. *Thank you for your call. The service person is James.*

Customer 3

Today is 13 July. Please leave your message after the tone.

Hello, my name is Sylvia. I've deleted some files. Can I recover them? My contact number is 050 7895421. Thank you. *Thank you for your call. The service person is Mahmoud.*

45

- 1 reversible ratchet driver
- 2 screwdriver
- 3 hex key set
- 4 pliers
- 5 wire cutter
- 6 wire stripper
- 7 insertion/extraction clipper
- 8 three prong holder
- 9 tweezers
- 10 anti-static wrist strap

46

[H = Helpdesk technician; T = Tuka]

- H: Hello, Aqhel speaking. How can I help you?
- T: Hi, my name's Tuka. I've upgraded my computer to Windows 7 and now I can't find my personal files anywhere!
- H: I see.
- T: I've checked Windows 'help' and that didn't tell me anything. I need one file urgently.
- H: I'm sure we can find your file. Don't worry.
- T: Well, I hope so.
- H: What Windows version did you have before?
- T: Before I had Windows Vista.
- H: OK. Is your computer on?
- T: Yes, it is.
- H: Good. Find *Windows.old* folder in your C drive.
- T: I don't understand. How? I can't see it in Windows Explorer.
- H: Please go to the search box, write *Windows.old* and click enter.
- T: OK.
- H: The *Windows.old* folder contains different folders. Your folders and files are in Documents and Settings. You should find the files there.
- T: I'll do that.
- H: I'll come down to your office if you still have a problem. Good luck.
- T: Thanks.

47

- 1 How can I help you?
- 2 I see.
- 3 I'm sure we can find your file.
- 4 Please go to the search box ...
- 5 Good luck.

UNIT 8 IT security and safety

48

[L = Ludek; A = Ales]

- L: Ales, can you check my laptop? Nothing seems to work.
- A: Hmm, what have you done this time? Wow! Your laptop is a mess.
- L: Sorry about that. I'll clean it up.
- A: Have you updated your antivirus software recently?
- L: Yes, I have. I did it last week.
- A: Well, that's good.
- L: I'm afraid I may lose my project. I haven't backed it up.
- A: Hmm. You might have spyware or some other malware on your computer. You should install a good spyware doctor program. An antivirus program may not catch everything.
- L: OK, I'll do that.
- A: And why don't you protect your WLAN access with a password? It's likely you will attract hackers and piggybackers and then you might lose a lot of work.
- L: Fine, I'll do that.
- A: I'll scan your system with my anti-spyware software now and see if there is a problem.
- L: Thanks.

49

- 1 You mustn't put your cup of coffee on the computer.
- 2 You mustn't work without breaks.
- 3 You aren't allowed to smoke in the office.
- 4 We aren't allowed to send private emails.
- 5 You shouldn't eat lunch at your desk.

Partner files: Student B

1 Working in the IT industry

Business matters Speaking exercise 4 page 11

Student B: You are Sharifa. You will receive a call from Mrs Mahmoud in answer to your email. Make sure she answers the questions in your email.

3 Websites

Website analytics Speaking exercise 8 page 23

Student B: Give Student A information about website traffic to your company's website.

Ask about his or her website.

Your company:

Number of visitors: 500,000 each month

Visitor location: the Middle East and
North Africa

Length of time on site: 2 minutes

6 Network systems

Business matters Speaking exercise 4 page 51

Student B

Monday	morning – attended a training course at the college afternoon – went to the doctor
Tuesday	morning – worked at home afternoon – was off

7 IT support

Fault diagnosis Speaking exercise 8 page 53

Student B

1 Help Student A with the problem.

The mail server asks for a username
and password.

Has Student A used the wrong password?

Student B

2 Call the IT help desk.

You cannot access the Internet at the moment.
Ask for help.

Student B

3 Help Student A with the problem.

There is a new default printer.

Student B

4 Call the IT help desk.

The opened page is too large for the screen.

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