2

IT systems

- give hardware specifications
- · give instructions for using a GUI
- · describe different multimedia types
- · explain OS installation

System specifications

Speaking

1 Work in small groups. What is the difference between peripherals and internal hardware? Name as many of each as you can. Can you install any?

Vocabulary

2 Are these items *internal components* (I), *peripherals* (P) or *storage* (S)? For some items, there may be more than one possible answer.

1 external drive ___ 7 mouse ___
2 hard disk drive ___ 8 memory ___
3 headphones ___ 9 monitor ___
4 optical drive ___ 10 power supply unit ___
5 keyboard ___ 11 printer ___
6 solid state drive ___ 12 screen ___

Listening

graphics card = video card

CPU = processor

Listen to a technician describing the motherboard to a new trainee. Match these words to A–G in the photo below.

1 audio socket ___ 4 Ethernet connector ___ 7 USB port ___ 2 CPU socket ___ 5 graphics card socket ___

DIMM slot ___ 6 SATA socket __



Language

For decimal values, we say 'point' for the decimal point and pronounce the next numbers individually. We don't always mention the 0 to the left of the decimal point for values less than 1.	It's 0.54 millimetres long. ('nought point five four' or 'point five four', NOT 'nought point fifty-four')
To express large and small numbers, we often use prefixes. For example, <i>kilo</i> - means '1,000'. The main stress is on the first syllable of the prefix.	a 3.6- kilo byte file

4 Match the prefixes in the box to these numbers.

33	dual- quad-	giga- tera-	kilo-	mega-	micro-	r	nilli-	nano-
1	1,000,0	000,000,000	3	1,000,000		7	1,000	,000
			4	1,000	_	8	4	
2	1,000,	000,000	5	0.000000001		9	2	
			6	0.000001				

- **Pronunciation** 5 Listen and underline the stressed syllables in these words. Then practise saying the words with a partner.
 - 1 a dual-core processor 5 18 nanometres 2 a quad-speed Blu-ray drive 6 a 26-kilobyte file 3 a 3.5-millimetre socket 7 2.4 megahertz 4 a micrometre 8 4 terabytes
 - Listening 6 Listen to an IT manager and assistant talking about a problem with a delivery of new computers. Correct this delivery slip to show what was ordered.

Order for: Wood Publishing

5 × Expression 5710 laptop computers with the following specifications:

- Entel 2.73 GHz dual-core CPU
- 1 × 390 GB SDD
- 8 GB dual-channel DDR3 1666 MHz RAM
- · Ladeon 3850 1 GB graphics card
- · No optical drive
- 15.6-inch WLED 1920 × 1080 screen
- · 4 × USB ports
- · No operating system installed
- 1 year next business day on-site service

10 × Domination 8720 desktop computers

- Entel 3.4 GHz quad-core CPU
- 1 × Eastern Digital 2 TB 7200 rpm SATA HDD
- · 16 GB 2000 MHz memory
- Ladeon 7950 2 GB graphics card
- 6 × Blu-ray combo optical drive (Blu-ray, DVD+/-RW & CD)
- · 4 × USB ports
- 802.11n WLAN wi-fi mini card
- · No operating system installed
- · 1 year next business day on-site service

Speaking

7 Work in pairs. Roleplay the conversation the IT manager in 6 will have with the supplier, Dingle Digital.

Hi, we ordered some new computers from you but the order is wrong. We ordered laptops with ... but they came with ...

- Work in pairs. Write some specifications for a computer. Then ask and answer questions about your partner's computer. Think about these things:
 - · processor speed
- · hard drive size

memory

- · screen resolution
- A: How fast is the processor?
- B: It's 2.84 megahertz.
- 9 Work in pairs. Suggest specifications for computers for these people. Then compare your answers with another pair.
 - 1 computers for administration staff
 - 2 a computer for a designer
 - 3 a server for a small business
 - 4 a computer for a sales person

I don't think admin staff need a fast processor. They only need it for word processing and email. What about a two-gigahertz processor?

GUI operations

Speaking

GUI = graphical user interface

1 Work in pairs. Look at the screenshot in 2. What different things can you do to a window?

You can resize it.

Vocabulary

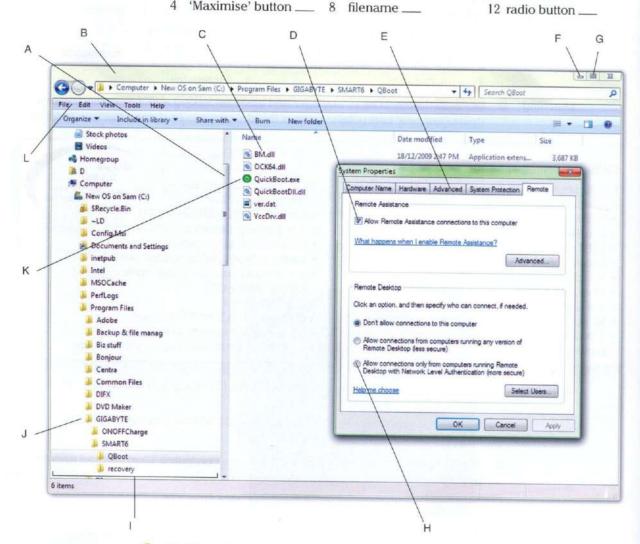
2 Match these words to A-L in the screenshot below.

 1 scroll bar ____
 5 title bar ____
 9 left-hand pane ___

 2 menu ____
 6 icon ____
 10 tab ___

 3 'Minimise' button ____
 7 folder ____
 11 check box ___

 4 'Maximise' button ____
 8 filename _____
 12 radio button



- 3 Work in pairs. Match actions 1–7 to their results a–g.
 - 1 Double click on the title bar
 - 2 Click on a menu
 - 3 Right-click on an icon
 - 4 Slide the scrollbar down
 - 5 Click the 'Minimise' button
 - 6 Drag the title bar
 - 7 Select the icon

- a) to open a new menu.
- b) and the window fills the screen.
- c) if you want to move the window.
- d) to hide the window.
- e) to scroll the window down.
- f) to open it.
- g) and its background changes colour.

Listening 4 Listen to a help desk technician talking to an IT user. What information is the technician looking for?

5 Listen again. Number the instructions in the order you hear them.

Choose 'Properties' from the menu.

Just select 'Manage'.

Just right-click where it says 'Disk 0'.

Select 'Install date'.

Can you scroll up to the top?

Language

We often use imperatives to give instructions. We use 'softeners' such as <i>could you</i> , <i>can you</i> and <i>just</i> to make the instructions sound more polite.	Drag the window to the left. Could you just double click on the bottom icon?
We use sequencers (e.g. <i>first</i> , <i>then</i> , <i>next</i> , <i>after that</i> , <i>finally</i>) to show the order of the steps.	First, just click on the 'Start' button. Then select 'Shut down' in the bottom right corner.

6 Look at the instructions in 5. Underline the imperatives. What softeners does the speaker use?

Speaking

7 Work in pairs. Take turns being an IT help desk technician and an IT user. Use these prompts to explain to your partner how to follow the steps for each action.

'Start' button → 'Control Panel' → 'System and Security' heading → under 'System': 'View amount of RAM and processor speed'

- A: First, could you click on the 'Start' button?
- B: Sure.
- A: Then select 'Control Panel'. A box will appear.
- B: OK.
- A: Click where it says 'System and Security', then 'View amount of RAM and processor speed', under 'System'.
- B: Got it! Thanks very much.
- 1 'Start' button → Mozilla Firefox → double click/title bar
- 2 right-click on 'c:' drive → 'Properties' → 'Sharing' tab → 'Advanced Sharing' → 'Share this folder' check box → 'OK' → 'Close'
- 3 press 'Start' key and 'E' key to open Windows Explorer → 'Uninstall or change a program' at top → find 'Anki' → right-click → select 'Uninstall'
- 4 find clock on bottom right of screen → right-click it → 'Adjust date/time' in pop-up menu → 'Change time zone' button → '(UTC+09.00) Osaka, Sapporo, Tokyo' in drop-down menu → 'OK' → 'OK'
- 5 'Start' button → 'Control Panel' → 'Appearance and Personalization' heading → 'Display' heading → 'Magnifier tool' link
- 8 Work in pairs. Take turns to explain these actions. Look at the prompts in 7 or use your own ideas.

how to close a program

First, go to the 'File' menu. Then click 'Exit'. Or click the 'x' in the top right-hand corner of the window.

- 1 how to open a program
- 3 how to change a program's settings
- 2 how to save a file
- 4 how to delete a file

Writing 9 Write an email explaining the steps for one of the actions in 7.



Multimedia hardware

Speaking

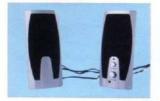
- 1 Work in pairs or small groups. Answer these questions.
 - 1 What do you use computers for? List as many uses as you can.
 - 2 Which items on your list from question 1 use the items in the box?
 - 3 Which other computer tasks use the items in the box?

audio graphics images video

Vocabulary

2 Label the photos with the multimedia equipment in the box.

headphones microphone projector speakers video camera virtual reality goggles webcam









1 _____

2

3

4







5

6 _____

7 _____

Speaking

- Work in pairs. Who might use each of the items in 2? What might they use them for?
- Reading 4 Read this email quickly. What does Kamal want to do?



Hi Kamal,

It should be quite easy to connect your laptop to a projector. First, check that both the laptop and the projector are off. Then connect the projector cable to the laptop: just plug it into the video socket. Most laptops have one, usually at the back or side. After that, insert the projector's power cable into a power socket and turn on the computer and the projector. Next, the computer has to find out the projector's resolution: press the 'Function' key ('Fn') on the laptop and, at the same time, press the key with a picture of a screen on it. The 'Fn' key is usually on the bottom left, near the 'Shift' key, and the key with the screen picture on it is usually on the top row of keys, on the left.

Don't forget to switch off the equipment and unplug the projector from the computer when you've finished.

Best wishes.

Natasha

Vocabulary 5 Match words 1–8 from the email in 4 to words a–h with a similar meaning	Vocabulary	5	Match words 1-8 fro	om the email in 4 to	o words a-h with a	similar meaning
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- 1 cable
- 2 plug (into)
- 3 insert
- 4 power socket
- 5 turn on
- 6 press
- 7 unplug
- 8 switch off
- Complete these prepositional verbs.
 - 1 connect _____
 - 2 plug ____

a) push

b) put (into)

c) connect

e) turn off

d) connector

g) switch on

h) disconnect

3 unplug ___ 4 disconnect ___

f) electricity socket

Language

Sentences with two objects

Some sentences have two objects. We often use a preposition between the two objects (verb + object of verb + preposition + object of preposition).

I unplugged the cable from the computer. Insert the plug into the socket.

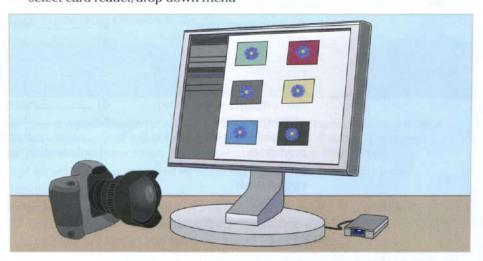
Read the email in 4 again and complete these instructions. Use two objects where appropriate.

Switch off the computer and the projector.

- 1 Plug _____ . 4 Push _____ . 2 Plug ____ . 5 When Sticked to
- 2 Plug ______.
- 5 When finished, turn ___
- 3 Switch _____
- 6 Disconnect

Writing

- 8 Work in pairs. Read the email in 4 again and mark the features below. What other forms of greetings and signing off can you think of?
 - the greeting
- a paragraph
- Write an email explaining how to transfer photographs from a digital camera to a computer. Give instructions for the steps below. Include the features from 8 in your email.
 - card reader → computer
 - open software
 - select card reader/drop down menu
- select destination folder
- 'OK' button



Operating systems

Reading Work in pairs. Put these steps in reinstalling an operating system in the correct order. ■ During the process, the computer will restart by itself several times. Near the end of the process, you can partition the hard drives. In the BIOS, set the first boot drive to DVD. Then reboot again. At the end of the process, the operating system will ask for the product key, time, date, network type and details for user accounts. First, put the installation DVD into the optical drive. Then reboot the computer while you press the 'F2' key. The BIOS will now start. This time, the computer will boot from the DVD and installation will begin. Before you start, back up everything. Near the start of the process, it will ask you to agree to the licence terms. Vocabulary Find words in 1 that match these definitions. 1 start again 2 split a hard drive into parts that act like separate drives _ 3 software built into a computer that controls how it starts up ___ 4 the drive that the computer reads first when starting up ___ 5 software comes with this to show you are the owner _ 6 settings for a user. 7 switch a computer off and on again _ 8 a series of actions to do something _ 9 copy data to another place so that you don't lose it _ 10 rules about how you can use software _ Language Expressing reason and purpose We can use these forms to express reason and purpose: Why should I update my OS? for + noun phrase For the new features. so that + clause So that you can use the new features. to-infinitive To use the new features. because + clause Because it has new features. Work in pairs or small groups. Match 1-6 to a-f. Then complete the gaps with because, so, to or for to make sentences. 1 Back up everything a) _____ enter the BIOS. 2 Put the DVD in the drive b) _____ that the computer restarts 3 Press 'F2' while rebooting the from the operating system DVD. computer use the different partitions for 4 During the installation process, different purposes. the computer will ask you d) _____ safety. some questions e) _____ that the process can start. it needs to know some 5 You might want to partition the hard drive information, such as where you are. Change the boot drive to the

optical drive

Work in pairs. Student A, you are an IT technician. Student B, you are an IT user. Ask and answer questions using 1–6 in 3 as prompts. Give different reasons from

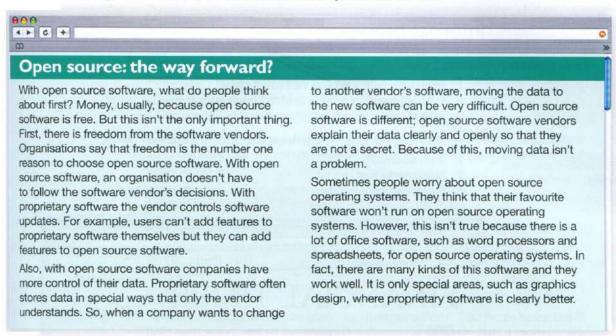
those in 3. Then swap roles and repeat the activity.

Speaking

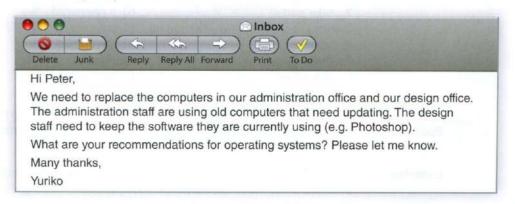
Business matters

1 Work in small groups. What do you know about open source software? How is it different from proprietary software? Think about cost, who writes it and how much people use it.

Reading 2 Read this web article and check your answers in 1.



- Listening 3 Listen to a spokesperson for a major operating system company giving a speech: 'Why open source is a bad idea'. What reasons does the speaker give to use proprietary software? Make a list.
- Speaking 4 Use the article in 2 to make a list of reasons to use open source software. Then work in pairs. Give reasons for your answers and discuss any differences.
 - Work in small groups. You are technicians in an advertising company. You look after operating systems and software. Look at this email from your manager and decide whether to use an open source OS, a proprietary OS or some of each. Then explain your decision to the class.



Writing 6 Write an email to your manager giving your recommendations. Use the Language box on page 18 and the information about writing emails on page 17.