Welcome Unit

Let's Learn Computer English!

Objectives

You will be able to:

1. identify different majors and jobs related to information technology (IT);

2. maintain occupational health when using computers.

Warming up

Discuss with your partner: What do the people in the following pictures do?

Welcome Unit

Section One

🎧 **I.   Listen to the dialogue.**

Lily is in the admissions office of LMH Vocational School. She would like to ask for some information about the majors in the Computer Department.
(L: Lily   T: Teacher)

T: Welcome to LMH Vocational School. May I help you?

L: Good morning, sir. I'd like to get some detailed information about the majors in the Computer Department.

T: Well, there're really many majors in the Computer Department. What are you interested in?

L: I'm interested in Python. Now it is very popular. What major should I choose?

T: Python belongs to programming. You could take Computer Applications or Software Engineering, both including the course of Python.

L: What courses does Computer Applications include?

T: It includes Programming, Word Processing, Network Technology Basics, Data Structure and Network Marketing.

L: Oh, I see. I'll go for Computer Applications.

T: OK, you're welcome to join us.

🎧 **II.   Listen again and answer the following questions.**

1. What majors are there in the Computer Department of LMH Vocational School?
2. What courses can be taken by a Computer Applications major?
3. Has Lily decided to enter LMH Vocational School?

III. Group Work.

List other courses related to IT as many as possible.

IV. Role-play.

Do you remember the first time you were in the admissions office? Can you role-play the situation?

V. Read the following passage.

Choose an IT Career Course

Basic courses:

</p> Programming

Learn C#, and its development tools Visual Studio and .NET to become an expert computer programmer with Microsoft certifications.

Networks

Learn how to set up and maintain IT networks up to industry standards, gaining certifications from Microsoft.

Advanced courses:

Virtual Reality (VR)

Learn the basics of VR and its different applications to become a VR expert with a VR certification.

⚙ **Big Data**

Learn how to collect, store and manage data, gaining qualifications to become a data analyst.

VI. Decide whether the statements are true (T) or false (F).

1. If you want to get Microsoft certifications, you can only take the Programming course.　　　　　　　　　　　　　　　　　(　)

2. Advanced courses include Networks, Virtual Reality and Big Data.　(　)

3. To become a data analyst, you need to know how to manage data.　(　)

VII. Read the following ads and find the suitable jobs for Linda, Lily and Peter.

Decoration Designer Wanted

Requirements:　• Creative
　　　　　　　• Excellent communication skills
　　　　　　　• Experience in decoration design
　　　　　　　• Major in Digital Media Technology

Salary: 6,000 to 8,000 yuan per month

Programmer Wanted

Requirements:　• Hard-working
　　　　　　　• Good problem-solving skills
　　　　　　　• Good at C++, Python
　　　　　　　• Experience as a computer programmer

Salary: 10,000 to 15,000 yuan per month

VR Engineer Wanted

Requirements:　• Passionate about VR
　　　　　　　• Solve problems independently
　　　　　　　• Strong programming skills
　　　　　　　• VR development experience

Salary: 10,000 to 20,000 yuan per month

Hi, I'm Linda. I graduated from LMH Vocational School. Over the past three years, I've worked in a large company as a computer programmer. I'm good at C++ and Python. At the same time, I also took the Basic English course. I'm good at English, and I can solve problems at work very well.

The job for Linda is: _____

Hello, my name is Lily. I have studied in a vocational school for three years. I've had special training in VR. I've also developed good programming skills and can solve most problems independently. What's more, I'm passionate about VR and have rich experience in VR development.

The job for Lily is: _____

Hi, I'm Peter. I'm from a vocational school. I majored in Digital Media Technology. At school, I did well in my main courses, such as AutoCAD, Photoshop, 3D Studio Max and Adobe Premiere Pro CS6. At the same time, I had a part-time job as a decoration designer. There, I learnt a lot that I couldn't get from books. I'm also creative and good at communicating with other people.

The job for Peter is: _____

VIII. Group Work.

Browse more English ads about IT jobs on the Internet and write them down.
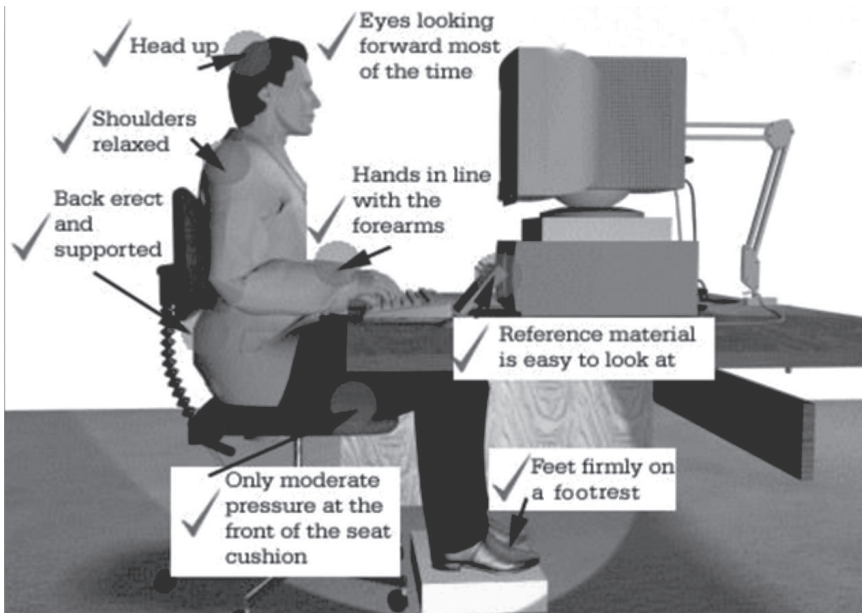
_____

_____

_____

_____

_____

_____

Section Two

I. Read the following material about the correct sitting posture.

You should choose a chair which allows you to adjust:

• seat height;

• back rest height;

• back rest angle.

You should adjust these as well as the desk, keyboard and the height of the monitor (screen) to maintain the following posture:

• keep your shoulders back and relaxed;

• support the small of your back (close to the waist area);

• keep your head up;

• keep your feet flat on the floor—use a footrest if necessary;

• keep your thighs and your forearms parallel.

Also remember to:

• change your position regularly—lift your arms, shake your hands, shrug your shoulders, arch your back;

• take a break from the computer—at least five minutes every hour;

• take a stroll and do some stretching like toe touching, hip and neck moving during the break.

II. Decide whether the statements are true (T) or false (F).

1. When we use the computer, we should adjust the height of the chair. (   )

2. We should keep our back erect.   (   )

3. We should hang our head.   (   )

4. We should change our position regularly.   (   )

5. We can use the computer for a long time without any rest.   (   )

III. Group Work.

1. Act out how you use a computer in daily life and discuss whose posture is correct.
2. Discuss the advantages of using the computer in a right way.
3. Discuss the disadvantages of using the computer in a wrong way.

IV. Go to a computer lab and try out a correct sitting posture.

Section Three

🎧 **Read the passage and discuss the following questions with your partner.**

1. In which aspects does big data technology play a vital role?
2. What kind of talent is indispensable in the new era?

New Professions, New Powers

With the development of science and technology, some jobs are slowly disappearing, and other new jobs are emerging.

For example, cloud computing and big data are creating a great number of jobs in recent years. Big data is being applied to all walks of life, especially in the field of medical and public health. The experience of controlling the spread of the COVID-19 pandemic has proven the importance of big data in medical information systems. In addition, big data also plays a vital role in payment transaction, national security, and other fields, creating a huge need for some new positions such as big data analysts.

In the new era, no matter what industry you are in, technology-based talent is indispensable. New occupations have brought new impetus to China's high-tech industries and injected new power into the great rejuvenation of the Chinese nation!

Key Words and Phrase:

disappear *v.* 消失

emerge *v.* 出现

impetus *n.* 推动（力）

indispensable *adj.* 不可或缺的

inject *v.* 注入

occupation *n.* 职业

pandemic *n.* 大流行病

profession *n.* 行业

rejuvenation *n.* 复兴

transaction *n.* 交易

play a vital role in 对……起极重要的作用

My Progress Check

In this unit, the words I have learnt are:

☐ adjust	☐ application	☐ certification	☐ designer
☐ digital	☐ erect	☐ maintain	☐ major
☐ monitor	☐ network	☐ programming	☐ technology

Other words I have learnt are: _____

The expressions I have learnt are:

☐ be good at	☐ Computer Applications	☐ go for
☐ play a vital role in	☐ set up	☐ Software Engineering

Other expressions I have learnt are: _____

Now I am able to:

☐ identify different majors and jobs related to IT

☐ use the computer with a correct posture

Unit One Computer Briefing

Objectives

You will be able to:

1. talk about the structure of a personal computer;

2. understand the commonly used parameters;

3. select suitable computers for different uses.

Warming up

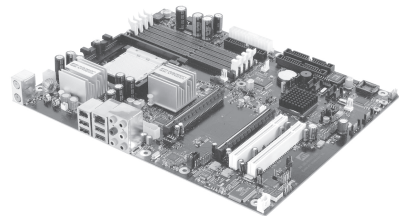**Match the words or expression with the pictures.**

A. CPU   B. mouse   C. monitor
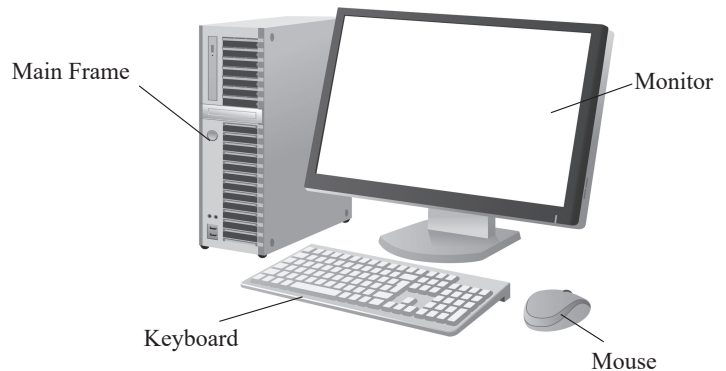
D. motherboard E. main frame   F. keyboard

Unit One

Section One

🎧 **I. Read the following passage.**

What Is a Computer Made up of?

A personal computer (PC) is a microcomputer designed for one person's use at a time. A typical personal computer system consists of hardware and software. The hardware system includes a central processing unit (CPU), or a microprocessor; various input and output devices, including a display screen, keyboard, mouse, modem, input pen, digital camera and printer; primary or internal memory; as well as secondary or external memory, usually in the form of hard disk, flash RAM and CD/DVD-ROM.

Main Frame — Monitor

Keyboard

Mouse

II. Read the passage again and answer the following questions.

1. What is a PC?
2. What does a typical PC system consist of?

III. Decide whether the following statements are true (T) or false (F).

1. A personal computer is often used by more than one person at a time. (   )
2. A personal computer consists of a CPU, internal and external memory, input and output devices.   (   )
3. Input and output devices include a display screen, keyboard, mouse, modem, input pen, digital camera and printer.   (   )

Section Two

I. Read and understand the following specifications.

Parameters	Specifications
Processor	Intel i5-12600KF
Memory	64GB RAM
Hard Drive	2TB
Operating System	Windows 11

II. Match the parameters with the correct specifications.

Processor   AMD Ryzen™ 5

Operating System   32GB RAM

Hard Drive   1TB

Memory   Mac OS X 10.6

Tips

标志中央处理器（CPU）性能的一个重要参数是主频（即 CPU 的时钟频率）。
自计算机问世以来，选购 CPU 时最重要的就是了解其工作频率。
频率的单位是 Hz（赫兹），1Hz=1次/秒，1KHz=1,000Hz，1MHz=1,000KHz，
1GHz=1,000MHz。

III. Group Work.

List more specifications of a computer in the table.

Parameters	Specifications

Section Three

🎧 **I. Listen to the dialogue.**

Lydia: I want to a buy a computer for my study. Can you give me some advice?

Jay: Yes, my pleasure. First you should think about two hows.

Lydia: Two hows? What are they?

Jay: How will you use your computer? How much can you spend on it?

Lydia: Oh, I see. First, I will use it for my study.

Jay: It depends on what you will study. There are three grades of computers. The low-grade is used for word processing, Internet browsing and so on; middle-grade for moderate multimedia, digital photography processing and so on; high-grade for CAD, VR and some Internet games.

Lydia: The higher grades are more expensive?

Jay: That's right. Then you should consider how much you can spend.

Lydia: I see. My major is IT Multimedia. My parents can give me 5,000 yuan. Can you help me choose one from the website?

Jay: No problem. I will search the website and let you know later.

🎧 **II. Listen again and answer the following questions.**

1. What did Lydia want to get from Jay?
2. Which grade of computers should Lydia choose?

🎧 **III. Read the following passage.**

How to Choose a Computer?

Choosing a computer can be difficult. First, you should decide what you are going to use the computer for. Then, you need to think about the configuration and your budget. Last but not least, you should consider where to buy it. I hope that the following suggestions will help you make your decision.

A computer is the best investment for you now! The price of a computer goes down significantly over time, but what a computer can help you with is endless. If you don't want to waste your time working helplessly in front of a slow computer that you bought three years ago, it is wise to buy a new one.

If all you need to do is word processing, spreadsheets making, home finances, some basic Windows games, emails, and Internet browsing, you are an average user. A high-grade computer is not necessary for you. Then you may consider a middle-grade computer, which is also fit for moderate multimedia and digital photography processing.

Servers are a lot more complex than any other computer systems. Normally, servers should have high speeds. Therefore, if you have high-end and hardware-demanding tasks to deal with, don't hesitate to choose a top-of-the-line server.

IV. Decide whether the following statements are true (T) or false (F).

1. You should buy the most expensive computer.　　　　(　　)
2. It's wise to buy a new computer than to update an old one.　　(　　)
3. A middle-grade computer cannot meet customers' need for moderate multimedia.

　　　　　　　　　　　　　　　　　　　　　　(　　)
4. A high-grade computer is necessary if you need to do home finances.　(　　)
5. Servers normally should have high speeds.　　　　(　　)

V. Group Work.

Choose the suitable computer for Lydia in **Listening**.

Intel® Core™ i7 Processor
Windows 11 Home
64GB memory
4TB hard drive
An independent graphics card of 4GB
27" LED
7,999 yuan

Intel® Core™ i5 Processor
Windows 11
16GB memory
2TB hard drive
An independent graphics card of 2GB
23" LED
3,999 yuan

Intel® Core™ i3 Processor
Windows 10
8GB memory
1TB hard drive
21" LED
2,999 yuan

Section Four

I. Work in pairs. Role-play the dialogue and find the expressions of giving suggestions.

Jay has searched the Internet and found some information. Now he is giving suggestions to Lydia about the computer.

Jay: How about this one with an AMD processor?

Lydia: It is expensive.

Jay: Since your budget allows, why not buy the most powerful one?

II. Practise giving suggestions. An example has been given.

Example: AMD Ryzen™ 5 Processor   energetic

—How about <u>AMD Ryzen™ 5 Processor</u>? —It is <u>energetic</u>.

1. the ultra-thin computer   very light
2. GeForce display card   powerful
3. 500GB memory   enough
4. LED   less harmful to your eyes

III. Listen to the dialogue.

John is living in China now. He wants to buy a computer for work.

(S: Shop assistant   J: John)

S: Good morning. Can I help you?

J: Yes, I'd like to buy a laptop computer.

S: What will you use it for?

J: For work.

S: How about this computer with Intel® Core™ i5 Processor, 32GB memory, and 1TB hard drive?

J: How much is it?

S: It is 3,999 yuan.

J: OK, I will take it. Can I pay by credit card?

S: Yes, you can.

J: Can you deliver this to my home?

S: Of course.

IV. **Listen again and answer the following questions.**

1. What will the computer be used for?
2. The computer will be taken home by John himself, won't it?

V. **Choose the correct sentences to complete the following dialogue.**

You are a shop assistant. You are now offering professional suggestions to Lin, a customer, who wants to buy a computer for designing 3D animation.
(S: Shop assistant   L: Lin)

S: Good afternoon. _____1_____

L: I want to buy a computer for designing 3D animation.

S: _____2_____

L: It requires a 3.4GHz processor, 16GB RAM, and a 1TB hard drive at least.

S: _____3_____

L: Is it enough for animation design? I think its configuration should be higher than the minimum requirement.

S: _____4_____

L: I see. What's the price of the computer?

S: _____5_____

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a. What's the minimum requirement?
b. Can I help you?
c. I suggest you use this one with Intel® Core™ i5, 64GB RAM, a 2TB hard drive and a GeForce graphics card.
d. It is 4,388 yuan.
e. No problem. It is enough for your design.

Tip
屏幕颜色数指的是屏幕上最多显示多少种颜色的总数。每个像素可显示的颜色数取决于显示卡上给它分配的 DAC 位数，位数越高，每个像素可显示出的颜色数目就越多，颜色则更加细腻。

Section Five

🎧 **Read the passage and discuss the following questions with your partner.**

1. What is CCF?
2. What is the responsibility of CCF?

China Computer Federation

Founded in 1962, the China Computer Federation (CCF), as the leading organisation in computing technology and applications in China, currently has about 100,000 paid members, and is run independently with no government funding. The CCF has 39 technical committees, 14 working committees and 36 chapters serving members all over the country. All members of the CCF Executive Board and Supervisory Council are voted through open elections, so the CCF is truly governed by its membership.

As the CCF's flagship event, the China National Computer Congress (CNCC) has attracted more than 7,000 participants every year, gathering to discuss the latest progress and trends in computing and related fields.

The CCF believes it has the responsibility to allow future generations to remember the experiences of unknown predecessors who have made contributions to the development of China's computer industry. In order to better preserve valuable historical moments in the development of computers in China, CCF has initiated the

Key Words and Phrases:

application *n.* 应用

committee *n.* 委员会

currently *adv.* 当前

generation *n.* 一代（人）

historical *adj.* 历史的

initiate *v.* 发起

participant *n.* 参加者

predecessor *n.* 前辈

preserve *v.* 保护

valuable *adj.* 有价值的

Executive Board 执行董事会

make contributions to 为……做贡献

Supervisory Council 监事会

"Memories of China's Computing History" Recognition Programme, which has successfully identified and protected many valuable and historical objects, including computer-related prototype systems, components and devices, books as well as software.

My Progress Check

In this unit, the words I have learnt are:

☐ configuration	☐ deliver	☐ device	☐ endless
☐ external	☐ internal	☐ laptop	☐ multimedia
☐ parameter	☐ personal	☐ primary	☐ server
☐ significantly	☐ software	☐ specification	☐ update

Other words I have learnt are: _____

The expressions I have learnt are:

☐ central processing unit	☐ credit card	☐ deliver… to
☐ graphics card	☐ main frame	☐ operating system

Other expressions I have learnt are: _____

Now I am able to:

☐ talk about the structure of a personal computer

☐ understand the commonly used parameters

☐ select suitable computers for different uses