XB2U3 Welcome to the unit & Reading 教案

**Step 1 Warming up**

1. Who can we turn to if we get sick?

A surgeon performs operations.

A physician is trained in general medicine.

A chemist prepares and sells medicines in a shop.

A dentist specializes in the care of people’s teeth.

a psychologist (心理医生)

an eye doctor (眼科医生)

a paediatrician/ˌpiːdiəˈtrɪʃn/ (儿科医生)

an orthopedic/ˌɔ:θəˈpi:dɪk/ surgeon (骨科医生)

a dermatologist/ˌdɜːməˈtɒlədʒɪst/ (皮肤科医生)

In summary: Medical professionals work hard to keep us healthy.

2. What do you think are the necessary qualities for being a good medical professional?

In summary: The practice of medicine is an art, not a trade; a calling, not a business; a calling in which your heart will be exercised equally with your head.

 —William Osler

行医是艺术而非交易，是使命而非生意。在这个使命中，你要如用脑般用心。

**3. Would you like to be a medical professional? Why or why not?**

Advantages:

(1) The sense of achievement

(2) The sense of mission

(3) Money

(4) ......

Disadvantages:

(1) Afraid of blood

(2) Repression

(3) Overworked

(4) ......

**4. What advances in medical science have you heard about？**

three-D printing

Precision medicine

In summary:Advances in medical science are happening quickly these days.

**Step 2 Pre Reading**

1. What do you know about genes?

What’s going to be talked about in the lecture, according to the title?

**Step 3 While Reading**

1.Skimming: What’s the topic sentence of each paragraph?What’s the structure of the article?

2.Scanning:

Para.1

(1) What’s the type of this passage?

(2) Who might be the speaker?

(3) What’s the main idea of the passage?

(4) What is the function of the first paragraph?

Para.2

(1) What is a genome?

(2) What information does our personal genome carry?

Para.3

How does genome editing help with disease treatment and prevention?

Para.4

(1) What is the structure of this paragraph?

(2) What is the function of the questions?

(3) What is a “designer baby”?

(4) Is genome editing a good thing?

Without appropriate controls, genome editing could be as dangerous as a car out of control.

Para.5

Which of the following can best describe the attitude of the author towards genome editing? Find evidence from the lecture to support your opinion.

A. Critical. B. Indifferent.

C. Favorable. D. Unclear.

**Step 4 Post Reading**

1. The lecturer mentions that one day we will be able to create “designer babies”. What do you think of “designer babies”?

Possible answer:

I don’t think we should design babies unless it is because of serious physical or mental health concerns. There is no need to design a baby if its parents are perfectly healthy. Natural gene selection ensures diversity among our species, so if “designer babies” become the norm, the diversity level will drop. Over time, this could lead to the majority of people being born with similar intelligence levels, similar physical features and perhaps, even similar personalities. Humans could evolve into “super-beings”, which some people may believe to be good for us, but interfering with our natural evolution could result in disaster. I don’t think we should take the chance.

2.What controls can we put in place to make sure that genome editing will work to our advantage?

Possible answer:

Governments around the world should work together to make laws and regulations about when genome editing can and cannot be used. First, these laws and regulations should cover various aspects of genome editing, such as ethical issues and security, and they may have to be introduced at multiple levels—global, national and even regional. Second, genome editing equipment needs to be strictly controlled so that it does not get into the wrong hands. Finally, governments, scientists, stakeholders and the public need to work together to enforce appropriate usage of genome editing. The application of these laws regarding genome editing will only be successful if all parties concerned cooperate.