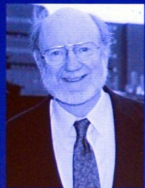



Scientific Writing in English  
—英语科研论文写作—


**The 2015 Nobel Prize in Physiology or Medicine**



William C. Campbell



Satoshi Ōmura



Youyou Tu

Lecture 6: Friday 09.10.2015  
(1.30-3.10pm/7-8.40pm)

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1. AUDIENCE

Module 2 Task 9a –Audience (Rocket launcher)

Your answers:

- \* ~ 80%: Weapons magazine
- \* ~ 20%: High-quality newspaper
- \* ~ 50%: written by a journalist employed by the publisher
- \* ~ 30%: written by a journalist employed by the weapons company
- \* ~ 20%: Freelance
- \* ~ 60%: independently written
- \* ~ 35%: Product advertisement

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1. AUDIENCE

Module 2 Task 9a –Audience (Rocket launcher)

Your answers:

- \* Audience: potential buyers, arms purchasers, military fans, foreigners who want to buy these weapons
- \* Aim: sell weapons, describe the products, advertise for weapons, promote Chinese weapons industry
- \* Over 60% of students agree the aim could be improved by providing more details

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**Module 2 Task 9a –Audience (Rocket launcher)**

xxx was established in June 1981 and has the widest print circulation of any English-language newspaper in China (over 200,000 copies per issue, of which a third are abroad).[1] The editorial office is in the Chaoyang District of Beijing, and the newspaper has branch offices in most major cities of China as well as several major foreign cities including New York City, Washington, D.C., London and Kathmandu.[2] The paper is published by satellite offices in the United States, Hong Kong, and Europe.[3][4] -> **potential buyers?!**

Published Monday to Saturday, it serves those who are foreigners in China, as well as those who wish to improve their English, and it is often used as a guide to government policy. The editorial policies differ in being slightly more liberal than most Chinese language newspapers. -> **potential buyers?!**

The stated goal of the newspaper is the presentation of "China and China's news to a unique group of readers and providing services and entertainment specially suited to those readers." [7] As of its first publication on 1 June 1981, most of the editorial staff of xxx are Chinese.[8] xxx... targets an international audience including foreign diplomats and tourists as it translates major Chinese newspaper articles in its editorials. -> **potential buyers?!**

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**1. AUDIENCE**

**Module 2 Task 9a –Audience (Rocket launcher)**

So, what is the real nature of this 'weapons magazine'?

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**1. AUDIENCE**

**Module 2 Task 9a –Audience (Rocket launcher)**

Its name is:

**CHINADAILY** 中国日报  
US | EUROPE | AFRICA | ASIA | 中文 September 26, 2015

HOME | CHINA | WORLD | BUSINESS | LIFESTYLE | CULTURE | TRAVEL | SPORTS | OPINION | REGIONAL | FORUM | NEWSPAPER -

China / Society

Hot Issues  
Photos

Government Society Innovation Education Cover Story People

**Less expensive weapons serve foreign buyers**

By Zhao Lei (China Daily)  
Updated: 2015-09-21 07:59

Comments Print Mail Large Medium Small

**Most Viewed** Today's Top News

- Holidays spark shopping spree
- Guangdong authorities destroy fake goods
- Most terrifying glass bridge starts swaying for tourists
- Milkyway in the Zhongnanhai Palace

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1. AUDIENCE

Module 2 Task 9a –Audience (Rocket launcher)

- > Introduction into critical reading
- > Most of you identified **the real aim** of this article!
- > Many good suggestions on how to achieve the main aim even better!

**Congratulations!**

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Scientific Writing in English  
— 英语科研论文写作 —

Second example: TASK 9b: Reverse Osmosis

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1. AUDIENCE

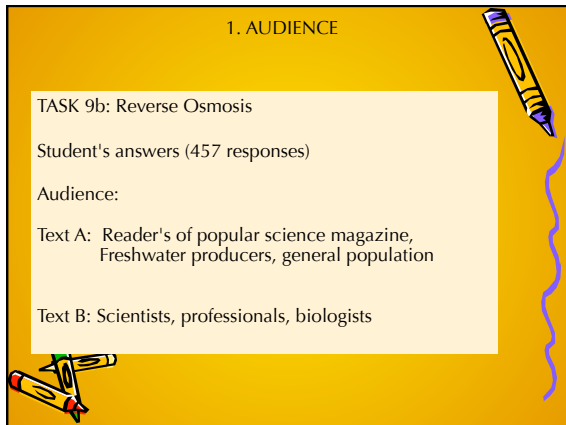
TASK 9b: Reverse Osmosis

Student's answers (457 responses)

Audience:

Text A: Reader's of popular science magazine,  
Freshwater producers, general population

Text B: Scientists, professionals, biologists



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1. AUDIENCE

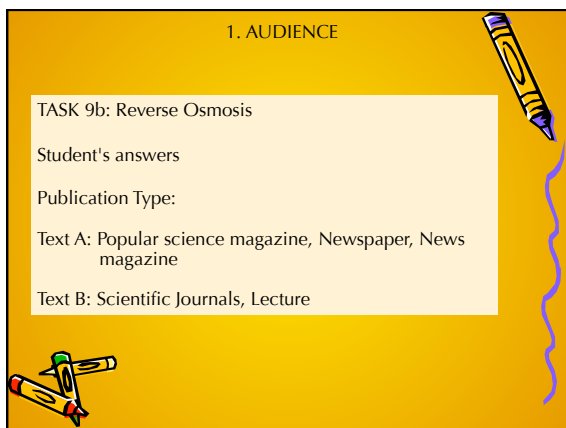
TASK 9b: Reverse Osmosis

Student's answers

Publication Type:

Text A: Popular science magazine, Newspaper, News  
magazine

Text B: Scientific Journals, Lecture



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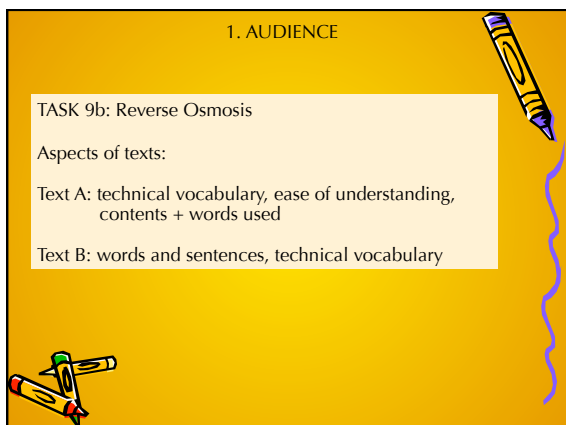
1. AUDIENCE

TASK 9b: Reverse Osmosis

Aspects of texts:

Text A: technical vocabulary, ease of understanding,  
contents + words used

Text B: words and sentences, technical vocabulary



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1. AUDIENCE

Did you notice the differences?

- \* differences in technical vocabulary
- \* amount of background information
- \* definitions of certain concepts
- \* language differences

-> reflect the assumptions the writer makes about the typical reader's familiarity of the subject

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1. AUDIENCE

TASK 9b: Reverse Osmosis

Solution:

Text A – Scientific American (2001)

Text B – American Institute of Chemical Engineers Journal (2000)

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1. For over 20 years now biologists have been alarmed that certain populations of amphibians have been declining. 2. These declines have occurred both in areas populated by humans as well as areas seemingly undisturbed by people. 3. However, offering clear proof of the declining numbers of amphibians has been difficult because in most cases there is no reliable data on past population sizes with which to compare recent numbers. 4. Moreover, it is not entirely clear whether the declines are actually part of a natural fluctuation in populations arising from droughts or a scarcity of food. 5. To address this problem biologists are changing the way that they observe amphibian populations. 6. One good documentation method involves counting species over the course of several years and under a variety of climatic conditions. 7. This method should yield reliable data that will help researchers understand the extent to which amphibian populations are in danger and begin to determine what can be done to stem the decline in populations.

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Organization

Task 5 p.14: Problem – Solution Organization

1. **Description of a situation?**

2. Identification of a problem?

3. Description of a solution?

4. Evaluation of the solution?

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1. For over 20 years now biologists have been alarmed that certain populations of amphibians have been declining. 2. These declines have occurred both in areas populated by humans as well as areas seemingly undisturbed by people. 3. However, offering clear proof of the declining numbers of amphibians has been difficult because in most cases there is no reliable data on past population sizes with which to compare current numbers. 4. The problem is not entirely clear whether the decline is due to natural fluctuation in population or to some other factor such as loss of food. 5. To address this problem, researchers have developed a new way that they observe and document amphibian populations over several years and under a variety of climatic conditions. 7. This method should yield reliable data that will help researchers understand the extent to which amphibian populations are in danger and begin to determine what can be done to stem the decline in populations.

Description of a situation

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Organization

Task 5 p.14: Problem – Solution Organization

1. Description of a situation?

2. **Identification of a problem?**

3. Description of a solution?

4. Evaluation of the solution?

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1. For over 20 years now biologists have been alarmed that certain populations of amphibians have been declining. 2. These declines have occurred both in areas populated by humans as well as areas seemingly undisturbed by people. 3. However, offering clear proof of the declining numbers of amphibians has been difficult because in most cases there is no reliable data on past population sizes with which to compare recent numbers. 4. Moreover, it is not entirely clear whether the declines are actually part of a natural fluctuation in populations arising from droughts or a scarcity of food. 5. To address this problem biologists are changing the way that they observe amphibian populations. 6. One good documentation method involves counting species over the course of several years and under a variety of climatic conditions. 7. This method should yield reliable data that will help researchers understand the extent to which amphibian populations are in danger and begin to determine what can be done to stem the decline in populations.

### Identification of a problem

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Organization

Task 5 p.14: Problem – Solution Organization

1. Description of a situation?
2. Identification of a problem?
- 3. Description of a solution?**
4. Evaluation of the solution?

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1. For over 20 years now biologists have been alarmed that certain populations of amphibians have been declining. 2. These declines have occurred both in areas populated by humans as well as areas seemingly undisturbed by people. 3. However, offering clear proof of the declining numbers of amphibians has been difficult because in most cases there is no reliable data on past population sizes with which to compare recent numbers. 4. Moreover, it is not entirely clear whether the declines are actually part of a natural fluctuation in populations arising from droughts or a scarcity of food. 5. To address this problem biologists are changing the way that they observe amphibian populations. 6. One good documentation method involves counting species over the course of several years and under a variety of climatic conditions. 7. This method should yield reliable data that will help researchers understand the extent to which amphibian populations are in danger and begin to determine what can be done to stem the decline in populations.

### Description of a solution

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Organization

Task 5 p.14: Problem – Solution Organization

1. Description of a situation?
2. Identification of a problem?
3. Description of a solution?
4. **Evaluation of the solution?**

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1. For over 20 years now biologists have been alarmed that certain populations of amphibians have been declining. 2. These declines have occurred both in areas populated by humans as well as areas seemingly undisturbed by people. 3. However, offering clear proof of the decline is difficult because amphibian populations fluctuate in most cases in sizes with which to compare. 4. It is not entirely clear whether the decline is due to natural fluctuation in population or to some other factor. 5. To address this problem biologists are changing the way that they observe amphibian populations. 6. One good documentation method involves counting species over the course of several years and under a variety of climatic conditions. 7. **This method should yield reliable data that will help researchers understand the extent to which amphibian populations are in danger and begin to determine what can be done to stem the decline in populations.**

Evaluation of the solution

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Organization

1. Description of a situation
2. Identification of a problem
3. Description of a solution
4. Evaluation of the solution

-> sounds familiar? Module 1: How to structure an abstract

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Style

TASK 11 (T8, p.18 ): The vocabulary shift

\* completed during the holidays

\* to be discussed now

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Scientific Writing in English  
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Module 2: 2-4 An Approach to Academic Writing

TASK 11| (Focus: Verb choices)

Choose a verb from the list that reduces the informality of the sentence. Note that you may need to add tense to the verb from the list. Write down any other single verbs that you think could also work in the sentences.

review	maintain	develop	cause	eliminate
reach	determine	investigate	decrease	constitute

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Scientific Writing in English  
— 英语科研论文写作 —

TASK 11: Formal Verb forms

1.The six leading causes of death in the U.S.—coronary heart disease, stroke, lung cancer, colon cancer, diabetes, and chronic obstructive pulmonary disease—are mainly **caused** by overeating, a lack of exercise, and cigarette smoking.

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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

2. Scientists are **investigating** innovative ways to combat AIDS.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

3. The purpose of this paper is to try to **determine** what is lacking in our current understanding of corrosion and corrosion protection in concrete.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

4. Researchers have recently **developed** hybrid vehicles that use a fuel-cell engine and a battery-assisted power train.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

5. Rice and aquatic products **constitute** a major part of the diet of the people in the Mekong Delta, Vietnam.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

6. The use of touch-screen voting systems could **eliminate** many problems associated with traditional paper-based ballots.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

7. Worldwide consumption of pesticides has **reached** 2.6 million metric tons.



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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

8. Although labor unions in the U.S. have been able to **maintain** their membership numbers over the last two decades, they have been losing their political strength.




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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

9. The number of mature female green turtles that return to their primary nesting beach has **decreased** from 1,280 ten years ago to 145 today.




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Scientific Writing in English  
—英语科研论文写作—

TASK 11: Formal Verb forms

10. The U.S. Defense Threat Reduction Agency **reviews** nearly 25,000 export license applications to make sure that no equipment or materials are sent to places where they could be used to make advanced weapons.




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Scientific Writing in English  
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TASK 11  
Students Task – Mini-Dictionary of formal verb forms

口语	中文	书面语	中文	Sample sentence (academic only)	出处
English		English		English	
work together (with)	?	cooperate (with)	合作	CRISPR consists of short repeat sequences that <b>cooperate</b> with Cas proteins.	1
push towards		skew towards			
seem		appears			
look into		examine			
look for		search, identify			
pinpoint		identify			
rule out		exclude			
guess		estimate			
to get		to obtain			
going 'out' down		collected			
was from		was obtained from			
to bounce back		recovered		... and found that it <b>recovered</b> 20 min after feeding	
to stop		to terminate			
made		prepared		Mutants were <b>prepared</b> with the Quick-Change kit (Stratagene) and verified by sequencing.	
help		assist		Significant fibrosis observed in the background thyroid gland also <b>assisted</b> with the diagnosis of IgG4-positive ITC.	
figure out		identify		In this paper, we attempted to <b>identify</b> why rivers in China disappear.	
try		attempt		In this paper, we <b>attempted</b> to identify why rivers in China disappear.	
use		use (not to be replaced by utilized)		usually in methods part (we <b>used</b> ... <b>using</b> ...)	

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