

Book 5 Unit1

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# Great Scientists

## John Snow Defeats "King Cholera"

第二课时

Reading for Writing

在全球抗疫的大背景下，全世界均见证了中国抗疫的成效。其中，钟南山院士功不可没。近日，《科学美国人》（*Scientific American*）杂志拟刊登钟南山院士抗疫科研过程，故面向全体中国人征稿，要求如下：

1. 自拟题目；
2. 凸显其科研过程和其科研精神；
3. 字数不限，用词严谨；
4. 截止日期：2020年6月15日。

# Learning objectives

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**Analyze the passage thoroughly**

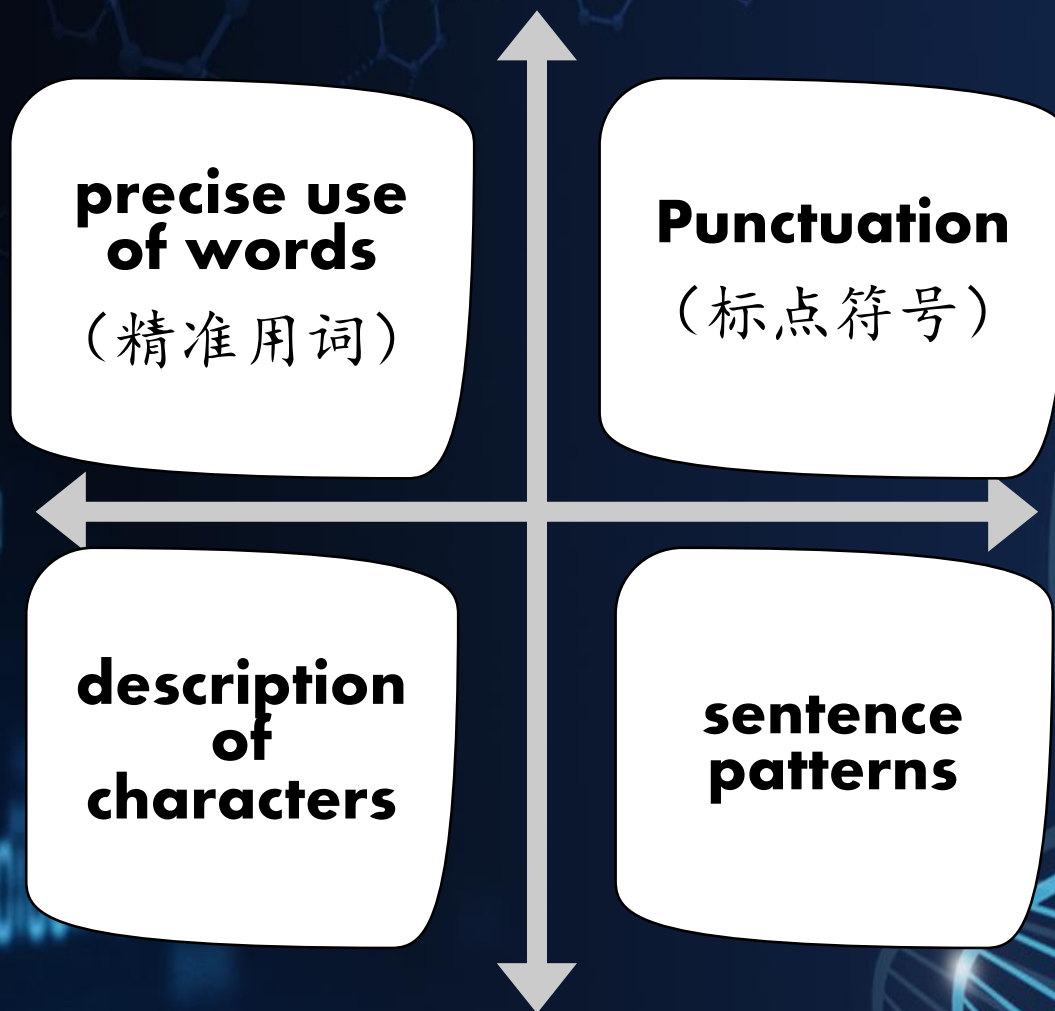
**Learn the language, contents,  
structure, and title of the passage**

**Write a similar passage about  
another scientist—Zhong Nanshan  
and his scientific research stages**



# Reading-Input

## Step 1—Language & Contents



# Precise use of words

convincing&persuasive

This was the **deadly** disease of its day.

↓  
?

Neither its cause nor its cure was understood. So many thousands of terrified people died every time there was an outbreak. Cholera would never be controlled until its cause was found.

# Punctuation

John Snow was a **famous** doctor in London  
- so expert, indeed, that he attended Queen  
Victoria as her personal physician.

**dash**

**dash:** to explain, to illustrate



# Sentence patterns

John Snow was a famous doctor in London  
- **so expert**, indeed, **that** he attended Queen Victoria as her personal physician.

**so...that...** ← **giving examples**

Zhong Nanshan is so expert that he played a vital role in defeating SARS in 2003 and even at the age of 84, he took an active part in fighting COVID-19.

# Description of characters

John Snow wanted to  
face the challenge and solve this problem.

**brave/courageous**

**Show, don't tell.**



# Description of Zhong Nanshan



Zhong Nanshan went to Wuhan at night by high-speed train instead of during day time to conduct investigation immediately.

responsibility&love for the public

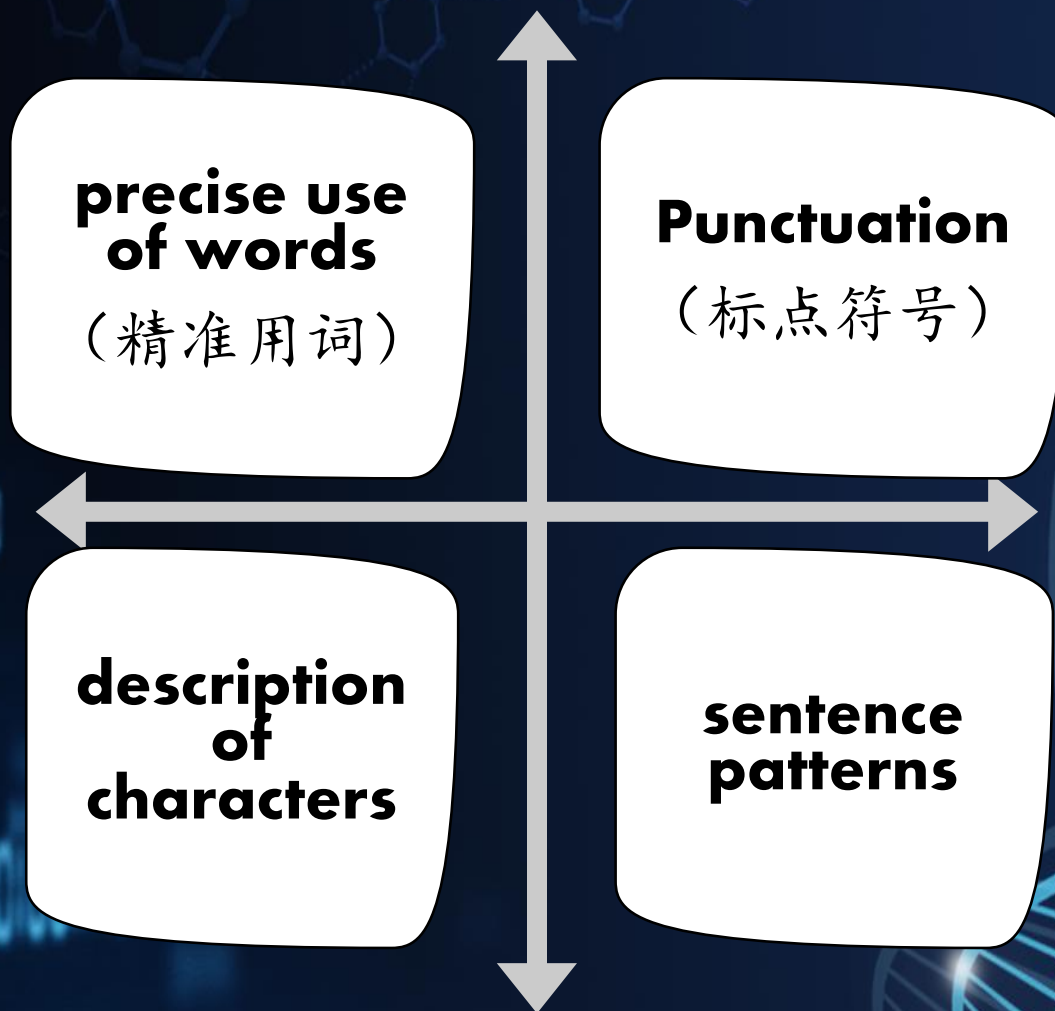
# Group Discussion

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# Reading-Input

## Step 1—Language & Contents





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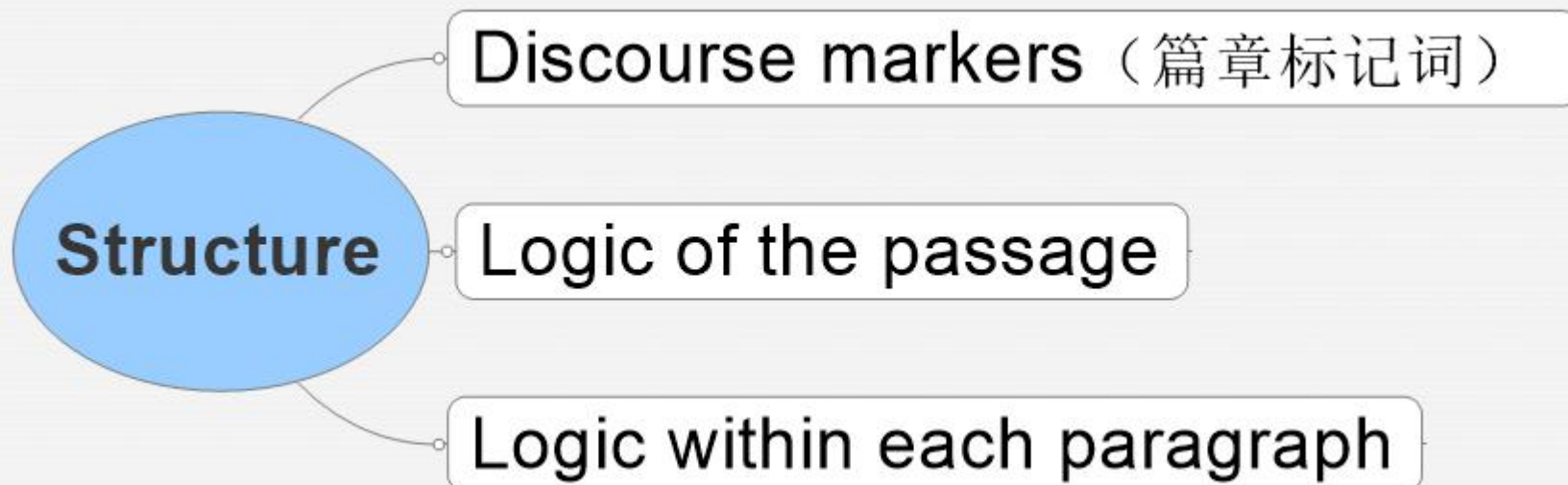
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Show  
time

# Reading-Input

## Step2—Structure



# Discourse markers (篇章标记词)

4. **First** he marked on a map the exact places where all the dead people had

discourse  
markers

5. **Next**, John Snow looked into the source of the water for these two streets. ....

logical & organized

7. **Finally** 'King Cholera' was defeated.



# Logic of the passage

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**Draw a conclusion**

**time order**

**chronological order**

**the scientific research stages**

**Find a problem**

**the results**

**Make a question**

**supporting evidence**

**Collect results**

**conclusion**

**conclusion**

# Outline of Zhong Nanshan's research

**Suspecting**



**the origin  
of the virus**



**SARS?  
Bats?**

# Outline of Zhong Nanshan's research

**Proving**



**go to the  
seafood market  
to investigate**



**analyze the  
confirmed cases**



# Outline of Zhong Nanshan's research

**Concluding**



**The virus originated in bats or pangolins.**



**It can spread from person to person.**



**People had better stay at home and wear masks when going outside.**

# Logic within each paragraph

He immediately told the astonished people in Broad Street to **remove the handle** from the pump so that **it could not be used**. Soon afterwards **the disease slowed down**.

↓ ↓  
**result reasons**

**cause and effect**

- Why did John Snow become inspired?  
(What are the causes of his inspiration?)
- What was the effect of his inspiration?



➤ **Why did John Snow become inspired?**

**(What are the causes of his inspiration?)**

① Helping ordinary people.

② The deadly disease of its day.

a. Neither its cause nor its cure was understood.

b. many terrified people died every time.

③ A famous & expert doctor

④ Cholera would never be controlled until its cause was found.

P1

➤ **What was the effect of his inspiration?**

Face the challenge and solve the problem.

➤ **Why was he determined?**

- ① John Snow suspected that the second theory was correct but he needed evidence.
- ② the disease spread quickly through poor neighbourhoods.
- ③ In two particular streets, the cholera outbreak was so severe that more than 500 people died in ten days.



➤ How did John come to the conclusion that “It seemed that the water was to blame”? (use your own words)

➤ **How did John come to the conclusion that “It seemed that the water was to blame”? (use your own words)**

- ① First he marked on a map the exact places where all the dead people had lived.
- ② Many of the deaths were near the water pump in Broad Street.
- ③ He also noticed that some houses had had no deaths.
- ④ He discovered that these people worked in the pub at 7 Cambridge Street. They had been given free beer and so had not drunk the water from the pump.

P7

➤ **Why did John give suggestions?**

To prevent cholera from happening again.



# Reading-Input

## Step3—Title

tense

figure of  
speech

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To emphasize the fact

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John Snow Defeats “**King** Cholera”

Finally “King Cholera” **was** defeated.

**powerful**

deadly/severe

**Personification**

vivid, arouse reader's interest/attention

# Zhong Nanshan & his scientific research stages?





## A war without smoke

It is widely believed that the virus came from wild animals. Some people also thought that it spread because of the SARS in 2003. But there was no supporting evidence for anyone.

At that time, Zhong Nanshan found the epidemic was very serious and he went to Wuhan quickly. He together with his team studied the virus day and night. And they also went to seafood market to investigate for many times.

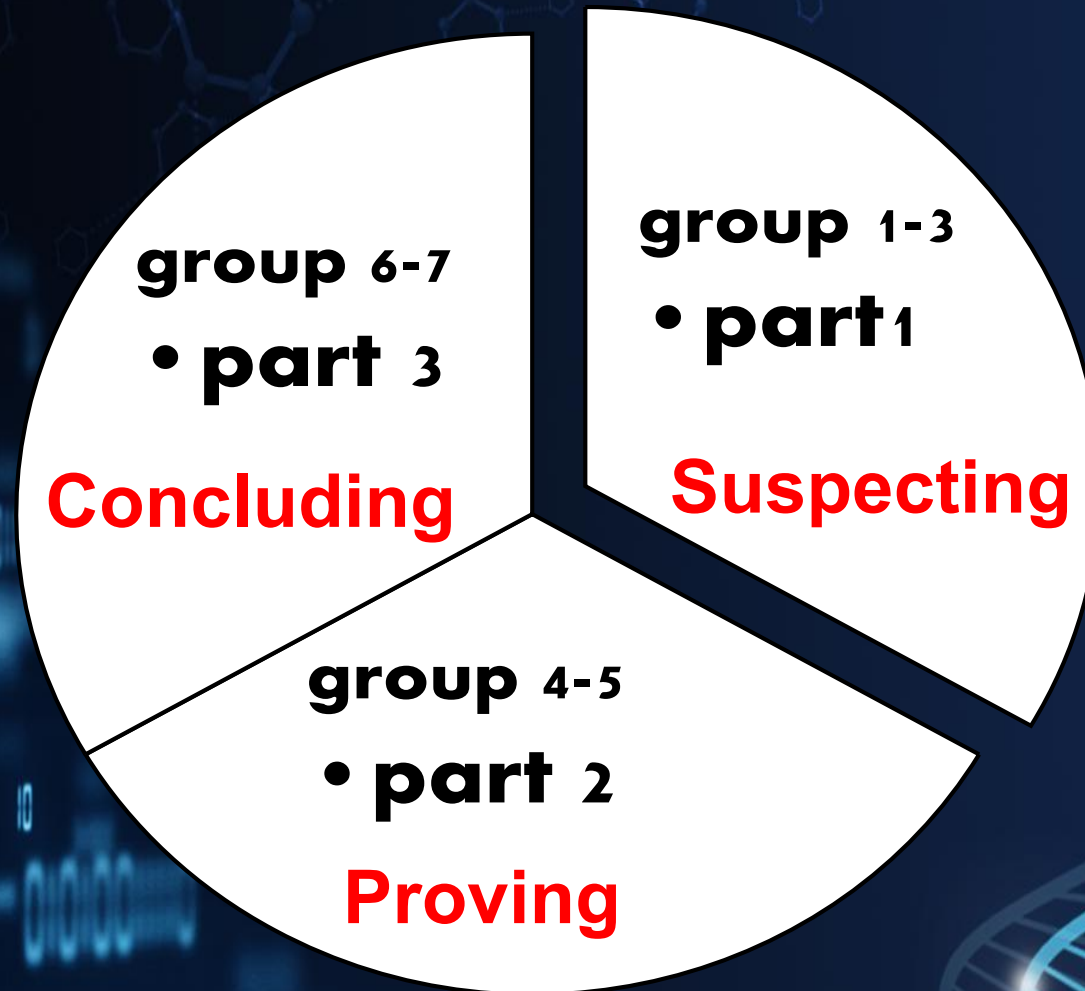
Finally, scientists found it came from the seafood market in Wuhan and it was transmitted from person to person. To prevent the disease from getting worse, the government was immediately advised to close the seafood market. Zhong Nanshan also warned us not to go to Wuhan and everyone should wear a mask. The virus was controlled gradually.

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# Jigsaw Writing—Output

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# Jigsaw Writing—Output

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**Write one part of Zhong Nanshan's scientific research stages.**

- **Give your passage a title first.**
- **No word limit.**
- **Combine your own ideas with what we have discussed.**
- **Discuss with your group members if necessary.**

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Show  
time

# Suspecting

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Your title here:

Dark clouds hardly cover the sun

When the COVID-19 occurred, the expert began to investigate how this deadly disease spread. Zhong Nanshan suspected the virus was caused by bats. And he also suggested it would be passed from person to person. Besides, he wasn't sure whether it multiplied in the air.



# Suspecting

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↓  
rigorous/cautious



Give your passage a title before writing.

No word limit.

Ensure beautiful handwriting.

Discuss with your group members if necessary.

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Proving

**Your title here:**

No winter last for long, every spring is sure to follow

In a short time, the expert group with academician Zhong Nanshan as core was set up. In the beginning, they attended a meeting which introduced the basic situation of the epidemic to them. Then they went to Jinyintan hospital to observe patients face to face. Zhong Nanshan immediately put forward some specific treatment suggestions. Eventually, they went to Huanan seafood market where the virus first appeared to collect figures. By analyzing these figures carefully, they drew a conclusion.

Give your passage a title before writing.

No word limit.

Ensure beautiful handwriting.

Discuss with your group members if necessary.

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Proving

essential/vital/crutial

care for the public

Your title here:

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# Concluding

Your title here:

There is no exact evidence that virus come from wild animals which remained a mystery. A code mission Zhong recommended early detection and early isolation. People were commanded to wear masks and wash hands frequently. Finally, the outbreak in china is largely under control. Though finding the source of the virus is necessary & I think it is more important and meaningful to protect ourselves and study hard, and remember the sacrifice of ~~these~~ <sup>those</sup> great doctors in our mind.



# Concluding

Your title here:

adv: to make the information more impressive

There is no exact evidence that virus come from wild animals which remained a mystery.

Zhong recommended early detection and early isolation

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# The fabulous titles given by ss

The Sunshine Brightens the Clouds

The Mountain that Guards People

**Articles with good titles are half written.**

The Lighthouse Old Man

Hope in Pandora's Box

题好一半文。

The War without Smog

The Way of Exploring

Angel Defeats Devil

Guardian of Life

Load Ahead...

# Assignment

- **Everyone complete your own passage.**

**No word limit.**

**Ensure beautiful handwriting.**

**Pay attention to the scientific research stages.**

- **Do self- assessment & peer-assessment within your own group.**
- **You're invited to email your passage to the editor's official email.**

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If we want to be a good writer,  
be a good reader first.



