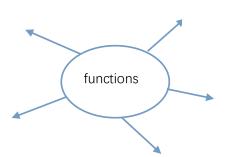
# 《高中英语》(上外版)选择性必修三 第四单元 第2课时 学案(学生版)

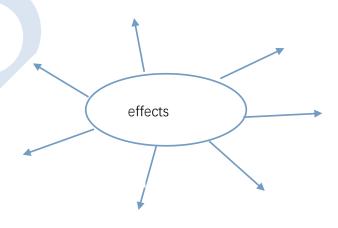
I.	W	ar	m	-u	p
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Interactive Task 1: Review the main idea and organization of Reading A.
Q1:What is the theme of the text?
Q2: What is the organization of the text?
II. Language Focus
Interactive Task 2: Review and analyse the functions of small quantity of carbon dioxide in Para. 2-3.
Q1: Can you identity the connector that links the two functions of carbon dioxide in Para. 2-3?
1) what's more
to add more information that emphasizes what you are saying 更为甚者: 更为重要的是
• 空气中少量的二氧化碳对我们没有害处,更为重要的是它对生命很重要。(what's more)
Q2: How do plants produce "food"?
2) absorb /əbˈsɔ:b / vt.
to take in liquid, gas, or another substance from the surface or space around something 吸收(液体、气体等)
absorb heat/carbon diovide/water/knowledge
sb. be absorbed in one's work
absor <u>ption</u> /əbˈsɔː pʃən / noun
absorbent /əb'sə: bənt/ adjective
Choose the word and phrases mentioned above and fill in the blanks in proper forms.
1. The scientists their work on plants' of carbon dioxide.
2. To sell recognized that these qualities might make it useful as anmaterial for removing
carbon dioxide.
Q3: Could you list the words and expressions related to the function of CO2 in Para. 2-3?



## Interactive Task 3: Review and analyse the harmful effects of CO2 in Para. 4-6.

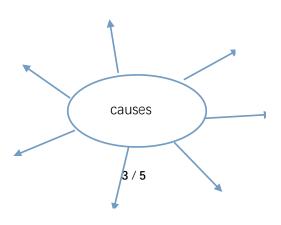
Q1: Why is this apparently harmless and certainly essential gas harmful to us?			
3) likelihood /ˈlaɪklihud/			
n. the chance of sth happening; how likely sth is to happen 可能;可能性			
adj. & adv. likely sb./sth. be likely to do sth.			
It's likely that			
e.g. In all likelihood, the sea level will continue to rise and do so at a greater rate in the course of the next			
hundred years.			
= The sea level will continue to rise and do so at a greater rate in the course of the next hundred			
years.			
= the sea level will continue to rise and do so at a greater rate in the course of the next hundred			
years.			
• 随着海平面的每年上升,许多城市很可能被淹没,引起了世界上很多耕地丢失。			
As the sea level is rising from year to year,, many cities will be drowned, causing much of the			
most farming land of the world to be lost.			
As the sea level is rising from year to year, many cities be drowned, causing much of the			
most farming land of the world to be lost.			
As the sea level is rising from year to year, many cities will be drowned, causing much of the			
most farming land of the world to be lost.			
Q2: Could you list the words and expressions related to the harmful effects of CO2 in Para. 4-6?			



## Interactive Task 4: Review and analyse the causes of consequences of CO2 in Para.7-11.

*	ntration /ˌkɒnsənˈtreɪʃən / e amount of a substance contained in a liquid or in another substance 浓度; 含量
n. th	e ability to direct all your effort and attention on one thing, without thinking of other things 专心;专注 oncentrate 集中于;专注
	oncentrate one's efforts/attention/energy/mind etc on something 全神贯注于;集中于
	节课上,生物老师将着重讲温室效应是怎样形成的。(concentrate)
• 随着ž	温室气体浓度的下降,地球开始再次变冷,最终又将回到冰河时代。(concentration)
•	, Earth starts to cool again, and eventually you slip
oack into	an Ice Age.
	an Ice Age.
• Huma	an Ice Age.
• Huma	an Ice Age.  an beings need powers of concentration to stop the concentration of carbon dioxide from moving upward
• Huma o avoid t 英译中:	an Ice Age.  an beings need powers of <u>concentration</u> to stop the <u>concentration</u> of carbon dioxide from moving upward the greenhouse effect.
• Huma o avoid t 英译中: Q2: What	an Ice Age.  an beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.
• Huma o avoid t 英译中: Q2: What	an Ice Age.  an beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  t is it that demonstrates the villainy of carbon dioxide?
• Huma o avoid t 英译中: Q2: What ————— 5) demor v. to	an Ice Age.  an beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  t is it that demonstrates the villainy of carbon dioxide?
• Huma o avoid t 英译中: Q2: What ————————————————————————————————————	an Ice Age.  In beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  It is it that demonstrates the villainy of carbon dioxide?  Instrate /'demonstrett/ In show sth clearly by giving proof or evidence 证明; 证实; 论证; 说明
• Huma o avoid t 英译中: Q2: What ————————————————————————————————————	an Ice Age.  In beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  It is it that demonstrates the villainy of carbon dioxide?  Instrate /'demənstreit/ In show sth clearly by giving proof or evidence 证明;证实;论证;说明  Sth (to sb)
• Huma o avoid t 英译中: Q2: What o demon v. to	an Ice Age.  In beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  It is it that demonstrates the villainy of carbon dioxide?  Instrate /'demonstrett/ In show sth clearly by giving proof or evidence 证明;证实;论证;说明  In that /how/what/why etc
• Huma o avoid t 英译中: Q2: What o demon v. to	an Ice Age. an beings need powers of concentration to stop the concentration of carbon dioxide from moving upward the greenhouse effect.  at is it that demonstrates the villainy of carbon dioxide?  astrate / demonstrett / a show sth clearly by giving proof or evidence 证明; 证实; 论证; 说明  asth (to sb)  that /how/what/why etc demonstration

Q3: Could you list the words and expressions related to the causes of these consequences in Para.7-11?



## Interactive Task 5: List the topic-related words and expressions.

The Villain in the Atmosphere			
1. Functions of carbon dioxide	2. Harmful effects dioxide	of carbon	3. Causes of these consequences

#### III. Language application

**Interactive Task 6:** 

Fill in the blanks with the appropriate forms of the given words and expressions to complete the dialogue. Note that there are two more options than you need.

widespread	atmosphere	estimate	quantity	release
do harm to	at a rate of	come about	absorb	concentration
A: Do you know any	ything about carbon	dioxide?		
B: Carbon dioxide is	s a gas. We breathe i	n oxygen and brea	the out carbor	dioxide. And plants 1 carbon
dioxide.				
A: So carbon dioxid	A: So carbon dioxide is not really harmful?			
B: Well, carbon diox	xide itself does not 2	the env	vironment, but	the 3 of it in the atmosphere
causes the "green	house effect."			
A: What is the "gree	enhouse effect"?			
B: It is the process by which radiation from the sun is blocked by the greenhouse gases and not reflected back into				
space. The 4 retains more heat than necessary.				
A: How does that 5	?			
B: In the last few centuries, coal, oil and natural gas have been burned for energy at a rapidly increasing rate. The				
carbon contained	in these fuels is beir	ng 6 in	the form of ca	arbon dioxide and poured into the

### 2C Unit 4 The Villain in the Atmosphere

atmosphere.		
A: And the forests, once 7 _	, have been disappearing rapidly in the las	st couple of centuries.
B: Exactly. It is 8	_ that tropical forests are now disappearing 9	about 13 million hectares per
year.		
A: I see. The burning of fuel	adds more carbon dioxide to the atmosphere, and	as the forests disappear, less carbon
dioxide is being removed	by plants.	
B: As a result, the 10	of the carbon dioxide in the atmosphere is goin	ng up year by year.

## **Interactive Task 7: Group discussion**

Question: what aspects of your daily life have been affected by the global warming?

Requirements:

- a. introduce the effects of the global warming.
- b. explain possible causes in a logical way.
- c. use as many words and expressions learnt in the text as possible.

#### IV. Homework

- 1. Complete Ex II on P55-P56;
- 2. Write a short passage (at least 100 words) on "what aspects of your daily life have been affected by the global warming?"

Requirements:

- a. introduce the effects of the global warming.
- b. explain possible causes in a logical way.
- c. use as many words and expressions learnt in the text as possible.