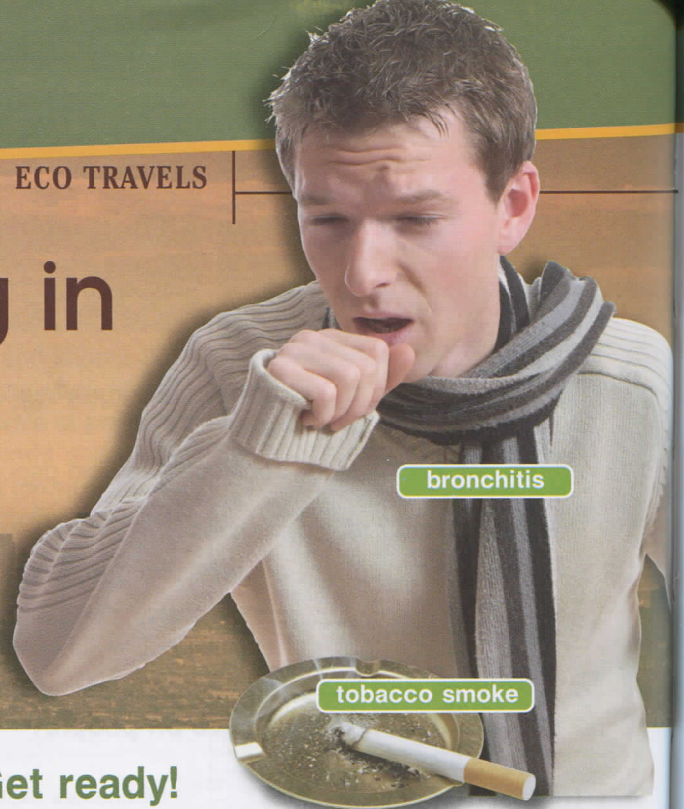
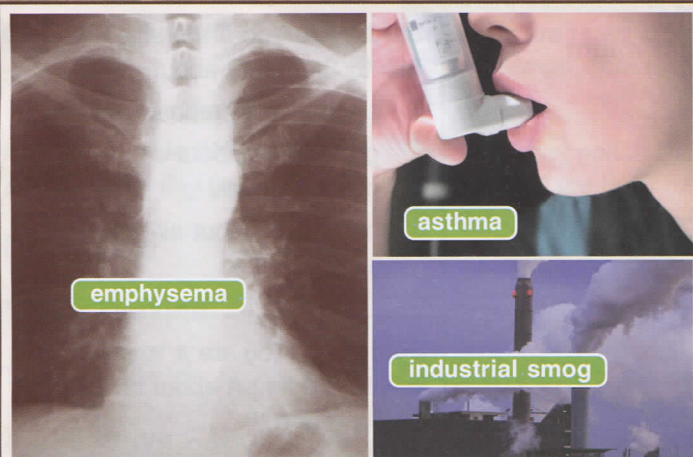


Hazardous Living in Cherry Basin



photochemical smog



Cherry Basin used to be an agricultural region with a small population. However, recent years have brought rapid expansion and industrialization. Air pollution is now a major health hazard.

Dr. Sandra Gibbons visited the region last month. "The amount of **industrial smog** is alarming," she said. "And they want to open another coal-burning factory." Dr. Gibbons said that the coal burning will also produce **acid deposition** and harm crops. "The smog pollutes the air, and **acid rain** soaks into the soil."

Dr. Gibbons also saw high levels of **photochemical smog** hanging over new urban areas. **Temperature inversion** prevented the pollutants from rising and dispersing. "You can hardly see down the street," she said.

Outdoor air is not the only problem. **Indoor air pollution** causes serious health risks, too. Poor **ventilation** traps pollutants inside cheap homes. People are exposed to **formaldehyde** and other chemicals in building materials. In buildings where people use cigarettes, **tobacco smoke** is a problem.

According to Dr. Gibbons, the health effects are wide-ranging. "Some people just develop mild **asthma**," she said. "But I've also seen people coughing uncontrollably. That's a sign of severe **bronchitis**." Dr. Gibbons expects more serious conditions in coming years. "People here are at high risk for **emphysema**," she said.

Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are two types of smog?
- 2 What are some illnesses caused by air pollution?

Reading

2 Read the article. Then, complete the table.

Pollution Factor	Effects
Coal burning	1 _____ _____
Temperature inversion	2 _____ _____
Poor ventilation	3 _____ _____

Vocabulary

3 Read the sentence pairs. Choose where the words best fit the blanks.

1 indoor air pollution / acid rain

A Sulfur dioxide in smog causes _____.

B Many common household products contribute to _____.

2 temperature inversion / ventilation

A Poor _____ traps pollutants inside homes.

B _____ causes pollutants to hang low over the city.

4 Place the words and phrases from the word bank under the correct headings.

Word BANK

- asthma tobacco smoke
- acid deposition emphysema
- photochemical smog bronchitis
- industrial smog formaldehyde

Types of outdoor pollution
Causes of indoor pollution
Medical conditions

5 Listen and read the article again. What are the effects of acid deposition?

Listening

6 Listen to a conversation between a scientist and a doctor. Choose the correct answers.

- 1 What is the main idea of the conversation?
 - A the local producers of air pollution
 - B ways of improving indoor ventilation
 - C methods for reducing smog
 - D the effects of pollution in an area
- 2 What does the woman expect to see in few years?
 - A industrial smog
 - B emphysema
 - C acid deposition
 - D bronchitis

7 Listen again and complete the conversation.

Scientist: Did you see any severe 1 _____ ?

Doctor: No, not yet. Mostly, I saw 2 _____ .

Scientist: I guess that makes sense. Emphysema cases will probably 3 _____ to develop.

Doctor: Right. But I'm sure we'll start seeing it soon. The residents are at 4 _____ from it.

Scientist: Wow. We've really got to do something about the air quality over there.

Doctor: You've got that right. People can't 5 _____ in that environment.

Scientist: It's not good for the surrounding crops, either. If there's that much industrial smog, it's probably causing 6 _____ .

Speaking

8 With a partner, act out the roles below based on Task 7. Then switch roles.

USE LANGUAGE SUCH AS:

- I didn't realize ...*
- We've really got to ...*
- That will cause ...*

Student A: You are a scientist. Talk to Student B about:

- air pollution in a particular region
- the types of pollution
- the effects of the pollution

Student B: You are a doctor. Talk to Student A about air pollution in a particular region.

Writing

9 Use the article and the conversation from Task 8 to write a health report for a region that is affected by air pollution. Include: the types of pollution, the cause of the pollution, and the current effects of the pollution.