

# 9 Oceans and biodiversity loss – Part 2

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Vocabulary 词汇

Write each word three times. 把每个单词抄写三遍。

| English             | 中文   | Write it 3 times (English) |
|---------------------|------|----------------------------|
| coral bleaching     | 珊瑚白化 | _____                      |
| ocean acidification | 海洋酸化 | _____                      |
| calcium carbonate   | 碳酸钙  | _____                      |
| invasive species    | 入侵物种 | _____                      |
| endangered species  | 濒危物种 | _____                      |

## Recall

In Part A you met climate change. Now its effects on the oceans and on living things:

- Warmer seas harm coral reefs.
- Some species are being pushed toward extinction.
- Animals moved to new places can cause damage.

Each idea has a short worked example before the Practice.

## New ideas

### ■ 1 Ocean warming

The oceans absorb most of the extra heat. Warmer water causes **coral bleaching** 珊瑚白化 (corals lose their algae and can die), and – with melting ice – raises sea level.

### ■ 2 Ocean acidification

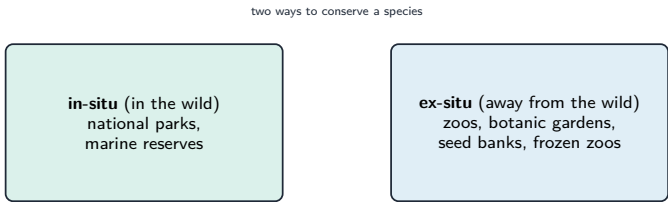
The ocean absorbs some of our CO<sub>2</sub>, which forms acid – **ocean acidification** 海洋酸化. Lower pH makes it harder for corals and shellfish to build their **calcium carbonate** 碳酸钙 shells.

### ■ 3 Invasive species

An **invasive species** 入侵物种 is a non-native species that spreads and harms its new home. With no natural predators, it outcompetes native species and reduces biodiversity.

### ■ 4 Endangered species

An **endangered species** 濒危物种 is at risk of extinction. The main causes are remembered as **HIPPO**: Habitat loss, Invasive species, Pollution, Population growth, and Overharvesting.



**Watch out:** an invasive species is dangerous precisely **because it is not native** – it has no natural predators or diseases in the new place to keep its numbers in check, so it can spread unchecked.

## Practice

Try these in order. The methods are all above.

2.1 State what causes coral bleaching. [1]

2.2 Explain how ocean acidification harms shellfish and corals. [2]

**2.3** State what makes a species “invasive” and why it can spread so easily. [2]

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**2.4** State what the letters in HIPPO stand for. [2]

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**2.5** Give two ways people protect endangered species. [2]

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