

8 Communities and ecosystems – 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)
community	群落	_____
competition	竞争	_____
predation	捕食	_____
symbiosis	共生	_____
Biodiversity	生物多样性	_____
keystone species	关键种	_____

Recall

In Part A you followed energy through an ecosystem. Now look at how species live together:

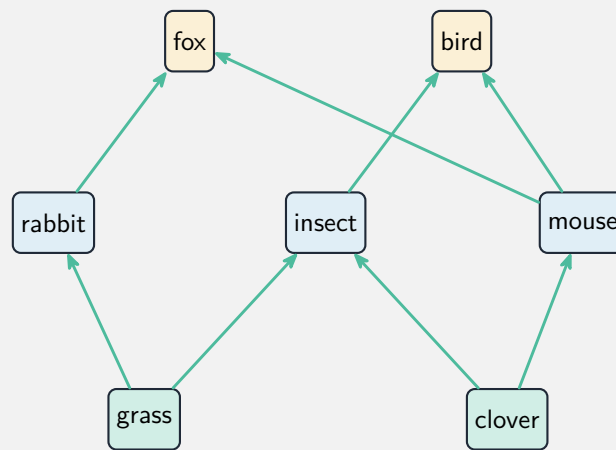
- Animals compete for food and space, hunt each other, and sometimes help each other.
- A variety of living things makes an ecosystem healthier.
- Human activity can damage ecosystems.

Each idea has a short worked example before the Practice.

New ideas

■ 1 Community interactions

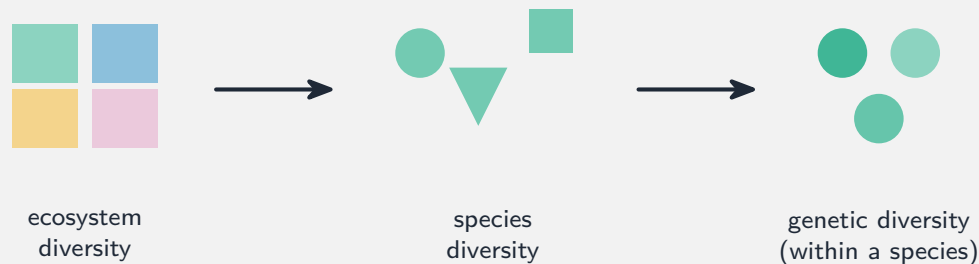
A **community** 群落 is all the species living together in an area. They interact by:



- **competition** 竞争—for shared food, water, or space,
- **predation** 捕食—one animal hunting another,
- **symbiosis** 共生—living closely together (both may benefit, or one may harm the other).

■ 2 Biodiversity

Biodiversity 生物多样性 is the variety of living things –genes, species, and habitats. Higher biodiversity usually makes an ecosystem more able to recover from disturbance.



■ 3 Keystone species

A **keystone species** 关键种 has an outsized effect on its community –removing it can cause the whole system to collapse.

■ 4 Human impact

Human actions –habitat loss, pollution, over-hunting, and climate change –reduce biodiversity and disturb ecosystems, and because species are linked, a change to one can ripple through many.

Watch out: because species are connected in a food web, harming one species (especially a keystone species) can affect many others –not just that one.

Practice

Try these in order. The methods are all above.

2.1 Name three ways species in a community interact. [3]

2.2 State what biodiversity means. [2]

2.3 Explain why higher biodiversity usually makes an ecosystem more resilient. [2]

2.4 State what a keystone species is. [2]

2.5 Give two ways human activity can reduce biodiversity. [2]
