

19.2 Food chains and food webs

Name: _____ Class: _____ Date: _____

Total: 6 marks

KEY WORDS food chain 食物链 • consumer 消费者 • food web 食物网 • species 物种 • herbivore 食草动物

Objective

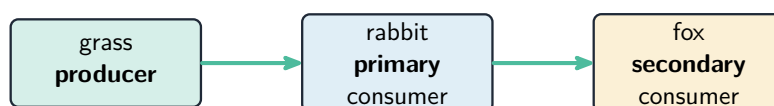
Build the skills to answer exam questions on **food chains and food webs** 食物链与食物网 — the terms, reading a web, and human impact.

You must be able to:

- define producer, consumer, herbivore, carnivore, decomposer
- read a food chain/web and the direction of energy flow
- explain the effect of overharvesting and introduced species

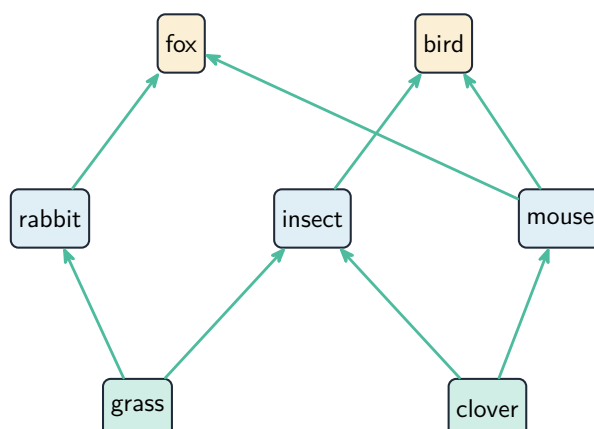
1 Worked examples

■ Food chains and webs



each arrow shows energy flowing to the next organism

Arrows show energy flow; a chain starts with a producer



A food web is several food chains linked together

- **producer:** makes its own food; **consumer:** feeds on others; **decomposer:** feeds on dead matter.

2 Practice

2.1 Define a producer. [1]

2.2 State what the arrows in a food chain show. [1]

3 Exam-style questions

3.1 In the chain grass → rabbit → fox, the rabbit is a: [1]

- **A** producer
 - **B** primary consumer
 - **C** secondary consumer
 - **D** decomposer
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3.2 A food web links several chains.

(a) Explain what could happen to the other organisms if all the rabbits were removed. [2]

(b) State one way humans can damage a food web. [1]

Solutions

2.1 an organism that makes its own food (usually by photosynthesis).

2.2 the direction of energy flow (from one organism to the next).

3.1 B. The rabbit eats the producer, so it is a primary consumer.

3.2 (a) animals that ate rabbits (e.g. foxes) would have less food and may decrease; plants the rabbits ate may increase.

(b) overharvesting (e.g. overfishing) or introducing a foreign species.