



The National  
Orthodox School  
Shmaisani

The National Orthodox School / Shmaisani

Subject: Biology

Worksheet : Food chains and food webs

Name:

Answer Key

Date:

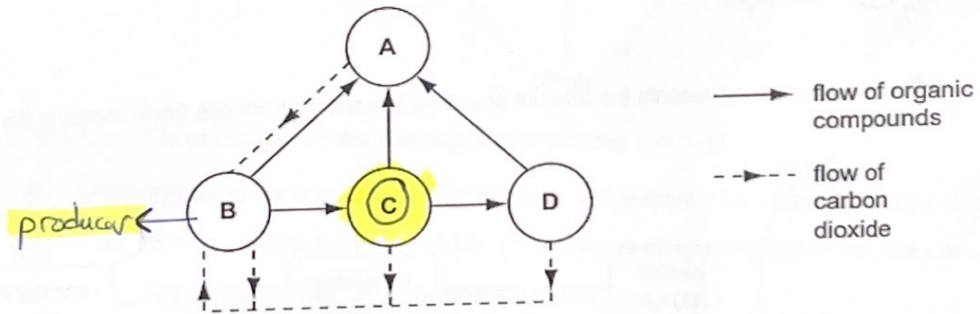
Grade 8 all sections

**Question 1 : Circle the correct answer**

1. The diagram shows the flow of substances within an ecosystem.

The circles represent trophic levels.

Which circle represents herbivores?



2. Which sequence describes the flow of energy in an ecosystem?

- A carnivore → herbivore → plant → Sun
- B plant → herbivore → carnivore → Sun
- C Sun → carnivore → herbivore → plant
- D Sun → plant → herbivore → carnivore

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

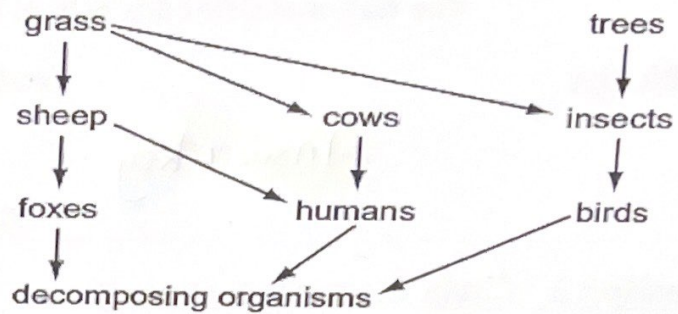
CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS



Eco-Schools

مكتبة من

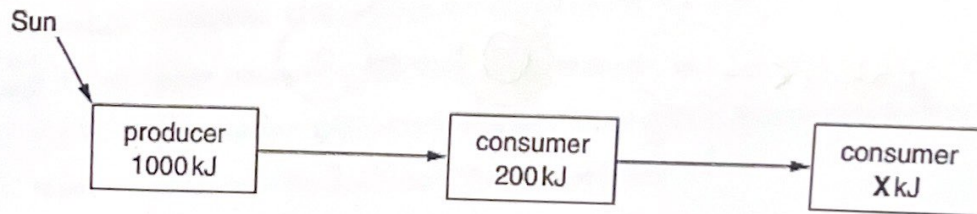
3 The diagram shows part of a food web.



What is the source of energy that enters this food web?

- A decomposing organisms
- B heat
- C oxygen
- D sunlight

4. The diagram represents the amount of energy transferred from one trophic level to the next.



What is the likely value of X?

- A 200 kJ
- B 100 kJ
- C 20 kJ
- D 2 kJ

$$200 \times \frac{10}{100} = 20 \text{ kJ}$$

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS



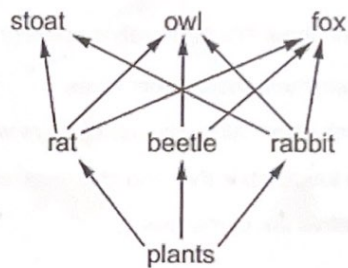
Eco-Schools

معلمة من

5. Which type of organism depends **directly** on light energy for its nutrition?

- A carnivore
- B decomposer
- C herbivore
- D producer**

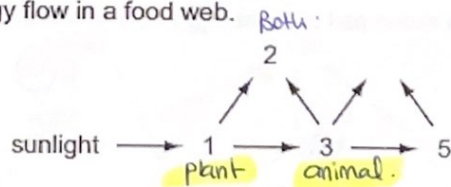
6. The diagram shows a food web.



What is likely to happen to the owl population if foxes die out?

- A It will decrease because there will be more competition with stoats for food.
- B It will increase because there will be more rats, beetles and rabbits for them to eat.**
- C It will stay the same because owls do not eat foxes.
- D It will stay the same because stoats will eat less food.

7. The diagram shows energy flow in a food web.



Which number represents an organism that eats both plants and animals?

- A 2**
- B 3
- C 4
- D 5

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

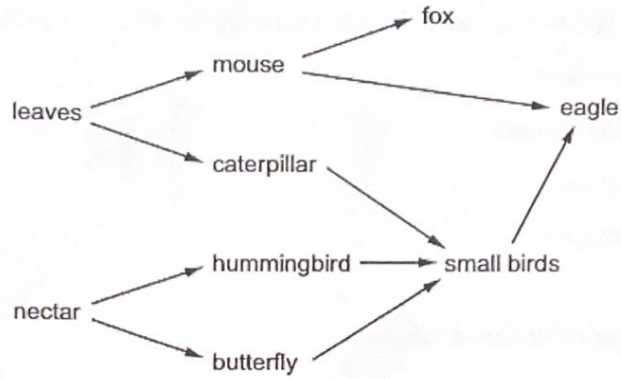
CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS



Eco-Schools

مكتبة من

8. The diagram shows a food web.



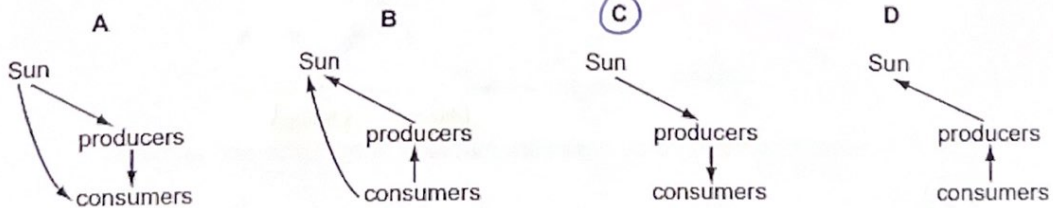
Which statement about this food web is correct?

- A Eagles obtain their energy from foxes.
- B If the hummingbirds all die the caterpillars will have more food.
- C Part of this food web is the food chain: nectar → caterpillar → small birds
- D The small birds are carnivores.

9. By which process do producers obtain energy?

- A digestion
- B photosynthesis
- C translocation
- D transpiration

10. Which diagram shows part of the energy flow in an ecosystem?



Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

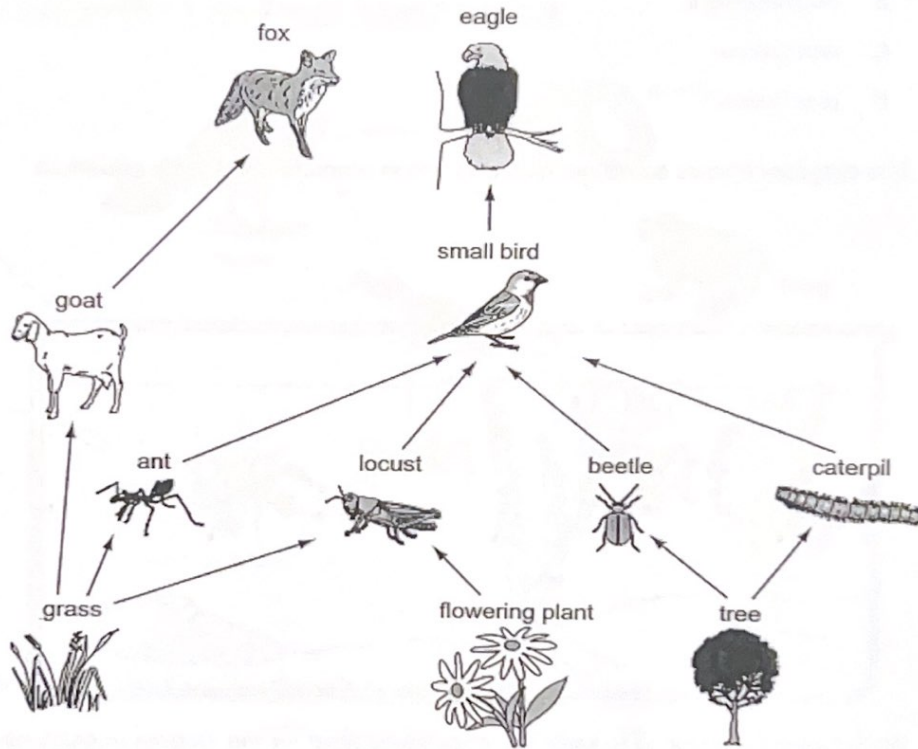
CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS



Eco-Schools

مُعْتَمَدَةٌ فِي

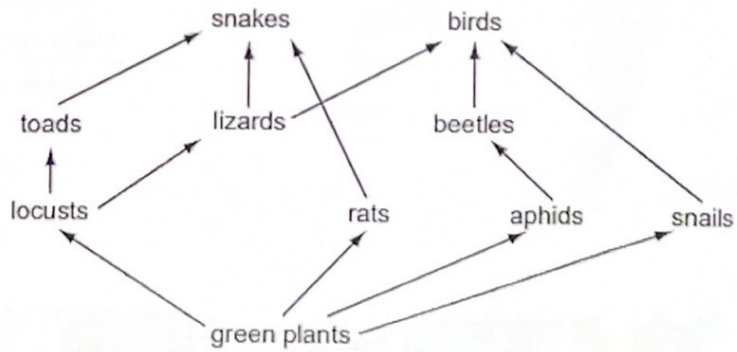
11. The diagram shows part of a food web.



How many herbivores are shown?

- A 3      B 4      C 5      D 6

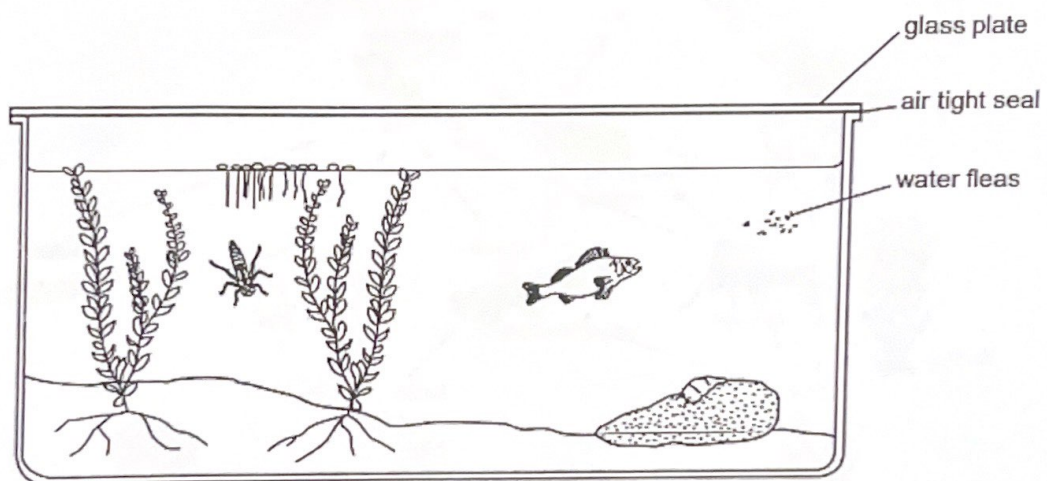
12. The diagram shows a food web in woodland.



In this food web, the beetles are

- A carnivores.
- B decomposers.
- C herbivores.
- D producers.

13. The diagram shows some animals and green plants sealed in an aquarium.



What must be supplied to keep the organisms alive for the longest possible time?

- A carbon dioxide
- B light energy
- C nitrates
- D oxygen

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS

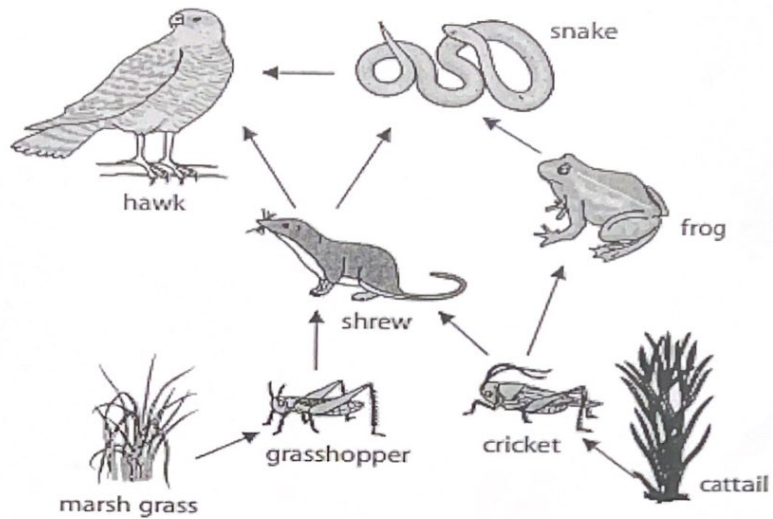


Eco-Schools

مُعْتَمَدَةٌ مِنْ

**Question 2 :**

**The diagram shows a food web from a habitat .**



**Use information in the food web to complete the table .**

Number of organisms	8
Number of different types of plants	2
Number of primary consumers	2
Number of organisms in the 1 <sup>st</sup> trophic level	2
Number of organisms in the 3 <sup>rd</sup> trophic level	2
Number of autotrophs	2
Number of heterotrophs	6
Number of food chains	5

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel

CIS  
COUNCIL OF  
INTERNATIONAL  
SCHOOLS



Eco-Schools

معلمة من