

1. What is Ecology?
2. Complete the table about levels of organization.

**LEVELS OF ORGANIZATION**

Level	Definition
Species	
	A group of individuals that belong to the same species and live in the same area
Community	
Ecosystem	
	A group of ecosystems that have the same climate and dominant communities

3. What is the original source of energy in a food chain?
4. Arrange the following organisms in a food chain with arrows:  
grasshopper, frog, grass, eagle
5. Identify the above organisms into:  
herbivore, primary consumer, producer carnivore, secondary consumer, tertiary consumer.
6. What are the different types of producers (on land and in the sea)?
7. What do the producers do in the presence of sunlight?

8. Which are biotic or abiotic factors?

soil type, decomposers, temperature, plant life, parasite, zooplanktons, rainfall

(a) Biotic factors =

(b) Abiotic factors =

9. What is the difference between a food chain and a food web?

10. Give one physical adaptation of a shark and one behavioural adaptation of earthworm.

(a) Shark

(b) Earthworm

11. Give 3 important functions of a plant like a tree to other organisms.

12. The term that describes the living relationship between 2 different organisms (species) is

S \_\_\_\_\_ . There are 3 main types: complete the table by writing whether the species is getting benefits (+) from other species or being harmed (-). If there is no effect, just use (0).

Living relationship	Species A	Species B
Parasitism		
Commensalism		
Mutualism		

13. What is the term used in Ecology for the following diagram?

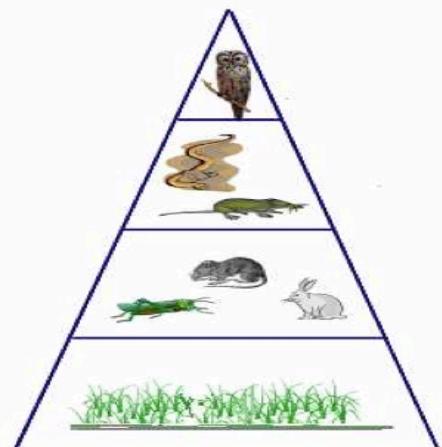
E \_\_\_\_\_ P \_\_\_\_\_

a) Write a food chain. (organisms are snake, rabbit, owl, grasshopper, rat, grasses and carnivorous shrew)

b) Give a reason why the community (organisms) are represented by such a diagram.

c) Name one related biotic factor that is not shown in the diagram. Start with D \_\_\_\_\_ S.

d) What are they (c ) ? Give a function of these organisms in the ecosystem?



j)

e) Which is the producer?

f) Which is a secondary consumer?

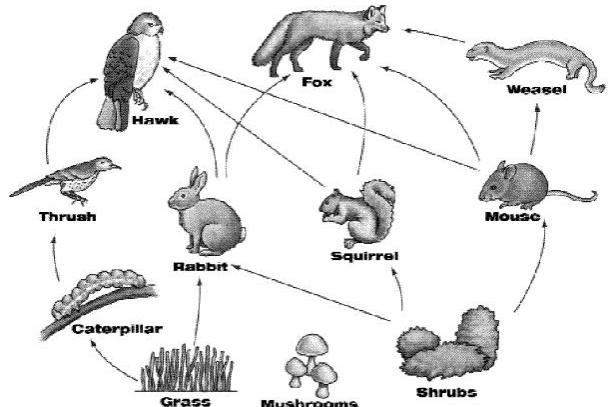
g) Name a carnivore.

h) In what form does the energy lose in the ecosystem.

- i) Why does a food chain consist only of 4-5 members at the most?
- j) Using the animals and grasses above to create a food web.

13. The diagram on the LEFT shows a food web

- a) Write a food chain and label the organism with herbivore, consumer, etc.



- b) Which are the top predators? Why?

- c) What happens if there is a sudden increase in rabbit population?

- d) If the caterpillars have got a disease, leading to a small population. Which organisms will be affected?

14. What is the order of the taxonomic rank?

15. What does endangered mean?

16. What is a dichotomous key?

17 Draw a dichotomous key for a group of organisms

18. Explain how to correctly write and or type scientific names?

19. What are the characteristics of living things? (Mrs Gren)

20. What is the difference between non-living and dead?