

Food Web Assessment

Answer all questions to the best of your ability. Use diagrams or short explanations when necessary.

1: Multiple Choice (1 point each)

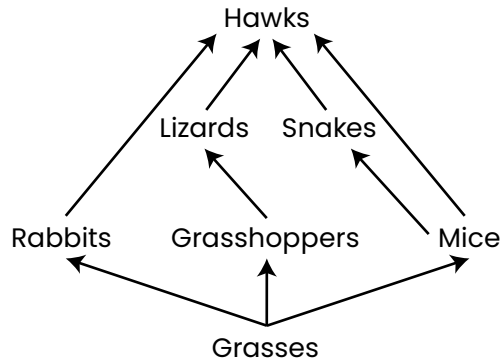
2: Fill in the Blanks (2 points each)

Organisms that break down dead organic matter are known as:

The transfer of energy from one trophic level to the next is often represented by:

A complex network of interconnected food chains within an ecosystem is called::

3: Diagram Analysis (5 points)



Identify the following in the food web:

One producer _____

One herbivore _____

One tertiary consumer _____

If the population of the producer increases significantly, describe the potential impact on two other organisms in the food web.

4: Short Answer (4 points each)

Explain the concept of biomagnification. Provide an example of how this process might affect organisms in a food web.

Discuss the differences between a food chain and a food web. Explain why a food web provides a more realistic representation of energy flow in an ecosystem.