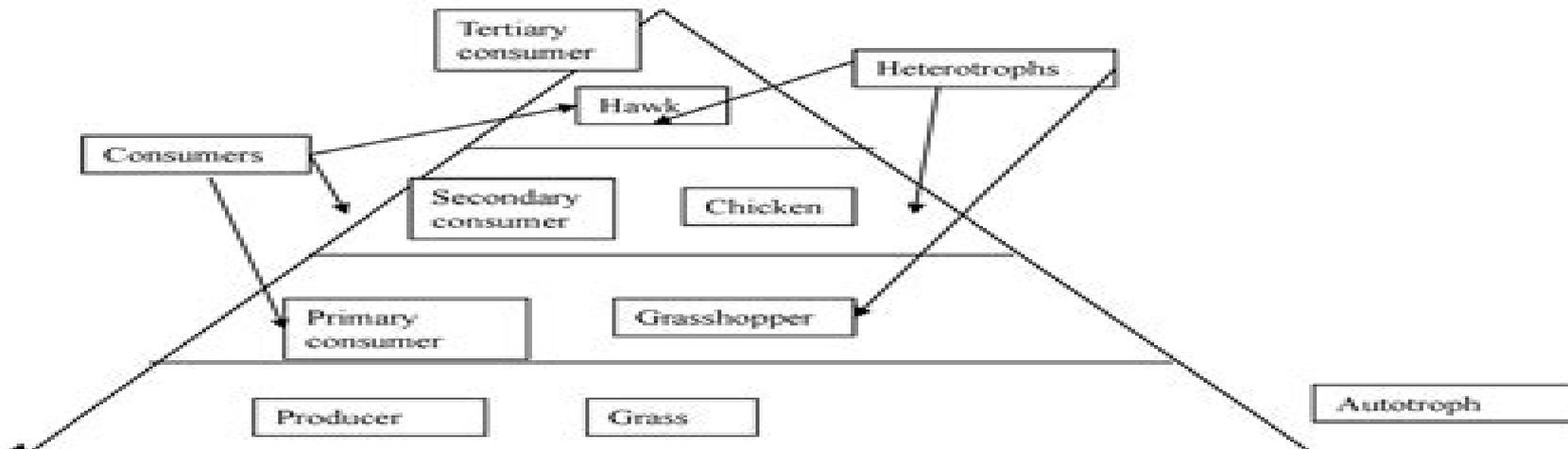


Ecological Pyramids Worksheet

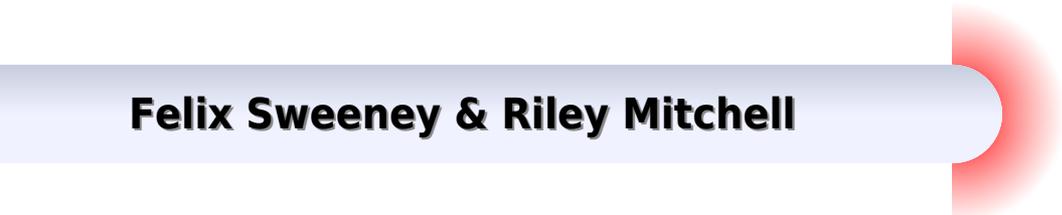
1. Give one example of a food chain that exists in nature. **Grass-mouse-snake-hawk**
2. In an ecological pyramid, what happens to energy, biomass and # of species as you move up? **Why?**
They all decrease because energy is lost as it moves up each trophic level. Each trophic level requires more energy to sustain it, increasing competition for resources and causing number of organisms to drop.
3. What is biomass? **Biomass is the total mass of dry organic matter per unit area.**
4. In an ecosystem, can there be more carnivores than herbivores? **Explain** why or why not?
No, there must be more herbivores because the herbivores provide food for the primary consumers. If the carnivores outnumbered the herbivores, the herbivores would die out and the carnivores would begin to starve.
5. What is the 10% rule? What is its significance? Why is energy lost? **10% rule refers to the fact that only 10% of available energy is transferred from one trophic level to the next as an organism eats. It is significant because it determines the amount of organisms at each trophic level and creates the pyramidal shape. Energy is lost due to heat, inedible parts, and the simple fact that not all prey are eaten by predators.**
6. Brainstorm to create a list of 2 human activities that interfere with ecosystems, food chains and food webs.
Pollution (incineration, factories, fuel combustion), Overhunting/fishing, Deforestation etc.
7. Label the ecological pyramid below with the following words: producers, tertiary consumer, secondary consumer, autotroph, heterotroph, primary consumer, decomposers, hawk, grass, chicken, grasshopper. **Also** label and explain what happens to energy, biomass and number of organism.



8. Discuss what trophic level humans can occupy on an ecological pyramid, and explain what happens to contaminants and environmental pollution (such as mercury) as you move down and up the ecological pyramid (what is this called?). **Humans can occupy any consumer trophic level depending on what they are eating. Contaminants accumulate in greater concentrations as you move up the pyramid. This is called biomagnification.**
9. Look at the food web on the first page of the article. Who does the Mated Geese depend on for survival? **Sedge**

Food Webs And Ecological Pyramids Answer Key

Felix Sweeney & Riley Mitchell



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Mitchell,2019-01-01 Ecology is the scientific study of the distributions abundance and relations of organisms and their interactions with the environment Ecology includes the study of plant and animal populations plant and animal communities and ecosystems Ecosystems describe the web or network of relations among organisms at different scales of organization An ecosystem is a self contained dynamic system made of a population of species in its physical environment This concept is used to study the complex interactions between the organisms plants animals bacteria and fungi that make up the community There are many different ways in which the community of organisms interacts Environment means everything around to a living being Especially the circumstances of life of people or society in their life conditions It comprises the set of natural social and cultural values existing in a place and at a particular time that influence in the life of the human being and in the generations to come Pollution is anything that makes the earth dirty and unhealthy Land air and water are all affected by pollution Pollution takes up space on our land Many of the things people use every day come in packages like food games school supplies and electronics Environmental science is the systematic study of our environment and our proper place in it A relatively new field environmental science is highly interdisciplinary integrating natural sciences social sciences and humanities in a broad holistic study of the world around us The aim of the present book is to provide its readers an acquaintance with the recent research trends in the area of ecology environmental science and pollution **Estuarine**

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