

Chapter 6 Objectives: "Ecosystems: Niche, Species Interactions, Succession, and Stability"

1. Define *ecological niche*, Distinguish between *fundamental niche* and *realized niche*.  
List the factors that determine the realized niche.
2. Distinguish between a *specialist* and a *generalist* and the conditions that favor each.
3. Distinguish among the following roles played by species and give one example of each:  
*native species, nonnative species, indicator species, keystone species*.
4. Distinguish among the following species interactions and give one example of each:  
*interspecific competition, predation, and symbiosis*.  
List two strategies species use to reduce competition
5. List two strategies that predators use to capture prey.  
List five strategies that prey use as a defense against predators.
6. Distinguish among *parasitism, mutualism, and commensalism* and give one example of each.
7. Define *succession*.  
Distinguish between *primary* and *secondary succession*.  
List four categories of successional species and give one example of each.
8. Summarize the effects of disturbances (such as fire) to the process of succession.  
Summarize the results of the field experiments at Hubbard Brook Experimental Forest.  
Describe the *intermediate disturbance hypothesis* and give an example from your own experience.
9. Distinguish among the following types of stability: inertia, constancy, resilience.  
Evaluate the interaction of stability and diversity.
10. Summarize the *theory of island biogeography*.