



Study Guide Chapter 36, 37 & 38

Ecology

Population dynamics

Exponential growth

Logistic growth

Carrying capacity

Limiting factors

Sustainable resource management

Community dynamics

Competition, predation, & symbiosis

Mutualism, parasitism, commensalism

Niche

Ecosystem dynamics

Trophic structure

Primary productivity

Primary consumer

Secondary consumer

Tertiary consumer

Decomposer

Ecological footprint

Keystone predator

Disturbance

Succession: primary & secondary

Climax community

Chemical cycling/ energy flow

Ecology Concepts

1. Describe the exponential and logistic growth patterns, what creates the patterns and use examples.
2. Describe the three types of symbiosis using examples for each.
3. Describe the general trophic levels within an ecosystem, how energy moves through it and how chemicals are recycled. Be sure to use an example for each level.
4. Explain how competition may eliminate a species from a community, and how niche specificity may allow competitors to coexist.
5. Explain the process of succession in an ecosystem. Use an example.