

Unit Three: Population Interactions (Ch. 5)

“I can...”

- _____ *differentiate* between abiotic and biotic factors.*
- _____ *create* and *interpret* graphs depicting the trends in predator and prey relationships.
- _____ *distinguish* between the characteristics of populations exhibiting exponential and logistical growth curves.
- _____ *identify* the limiting factors in a given ecosystem.
- _____ *read* and *interpret* age structure diagrams.
- _____ *predict* the impacts of density dependent and density independent factors on population sizes.
- _____ *design* a graphic organizer to show relationships between factors that increase populations and factors that decrease populations (i.e., immigration, emigration, birth rate, death rate, loss or abundance of resources, natural disasters).
- _____ *compare, contrast,* and *provide* examples of symbiotic relationships (i.e., mutualism, parasitism, commensalism).*
- _____ *develop* an analogy to show I understand the concept of carrying capacity (i.e., *explain* how the carrying capacity of an ecosystem is like the maximum occupancy rate of a restaurant).

Essential Vocabulary/Concepts:

abiotic factor	emigration
age structure diagram	exponential growth
biotic factor	immigration
birth rate	limiting factor
carrying capacity/dynamic equilibrium	logistical growth
commensalism	mutualism
community	parasitism
death rate	population
demography/demographics	predator
density dependent factor	prey
density independent factor	symbiosis