

ECOLOGY REVIEW SHEET (CH. 13 & 14)

- know difference between population, community & ecosystem
- autotroph vs. heterotroph
- carnivore vs. omnivore vs. herbivore
- biodiversity
- modeling vs. observation vs. experimentation
- biotic vs. abiotic factors
- food chain vs. food web
- trophic levels: what are they? how are they different? where is the most energy?
- ecological/biomass pyramid
- keystone species
- types of dispersion: clumped, uniform, random
- survivorship curves: Types I, II, III
- what factors increase numbers in a population?
- what factors decrease numbers in a population?
- density-dependent vs. density-independent factors
- logistic vs. exponential growth
- carrying capacity
- pioneer species
- symbiosis: mutualism, commensalism, parasitism
- biogeochemical cycles: nitrogen, water, carbon & phosphorus (why are there cycles? what can affect them? how can humans do harm or good?)
- job of decomposers? why are they **SO** important
- what happens to energy in an ecosystem? vs. what happens to chemicals (N, C, O, etc.) in an ecosystem?
- succession: primary vs. secondary