

Standard: Students will assess the dependence of all organisms on one another and the flow of energy and matter within their ecosystems.

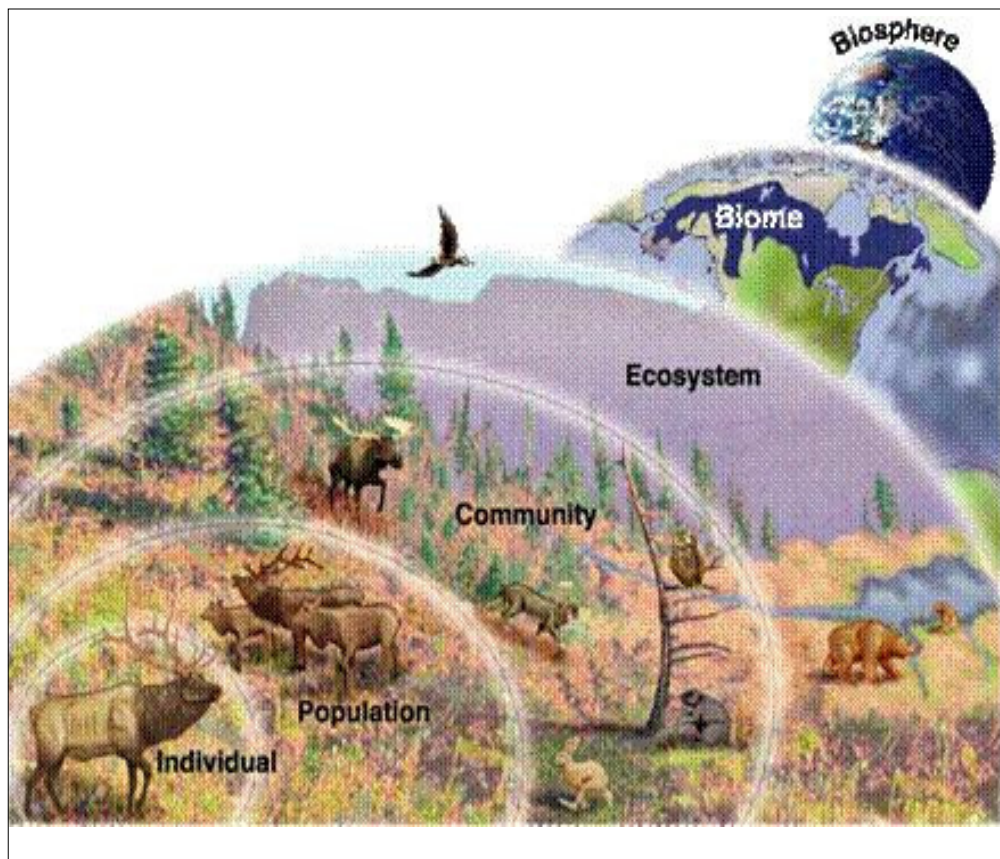
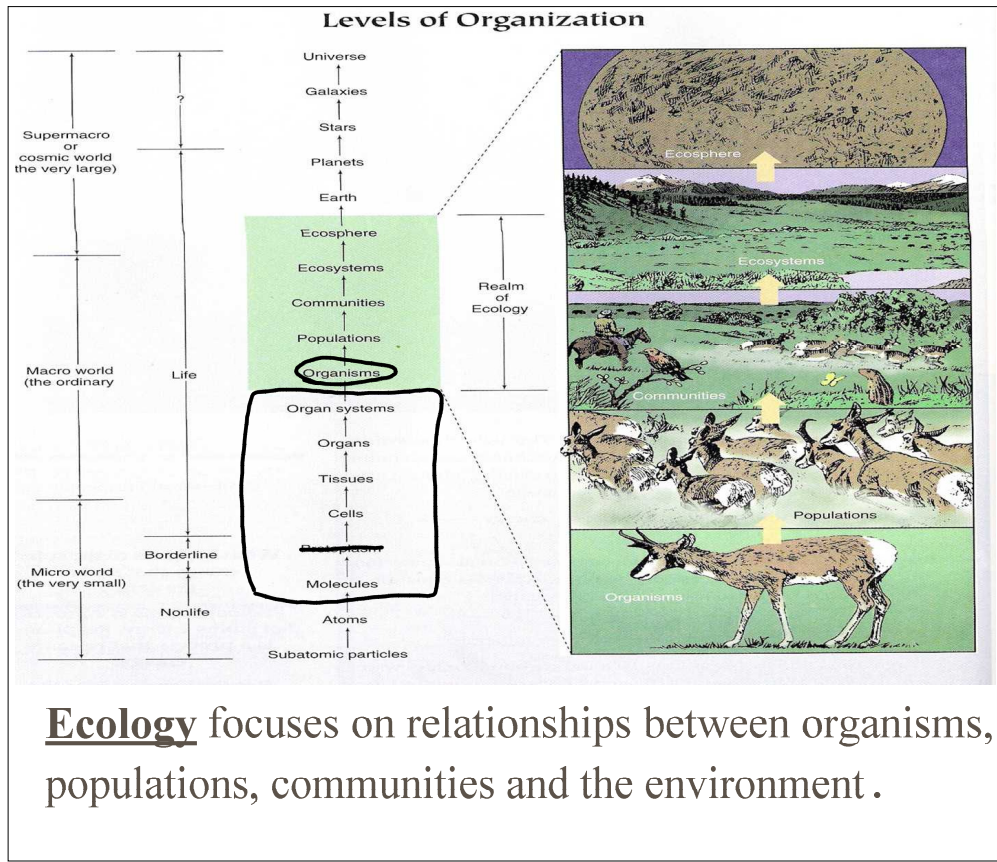
Element: Investigate the relationships among organisms, populations, communities, ecosystems, and biomes.

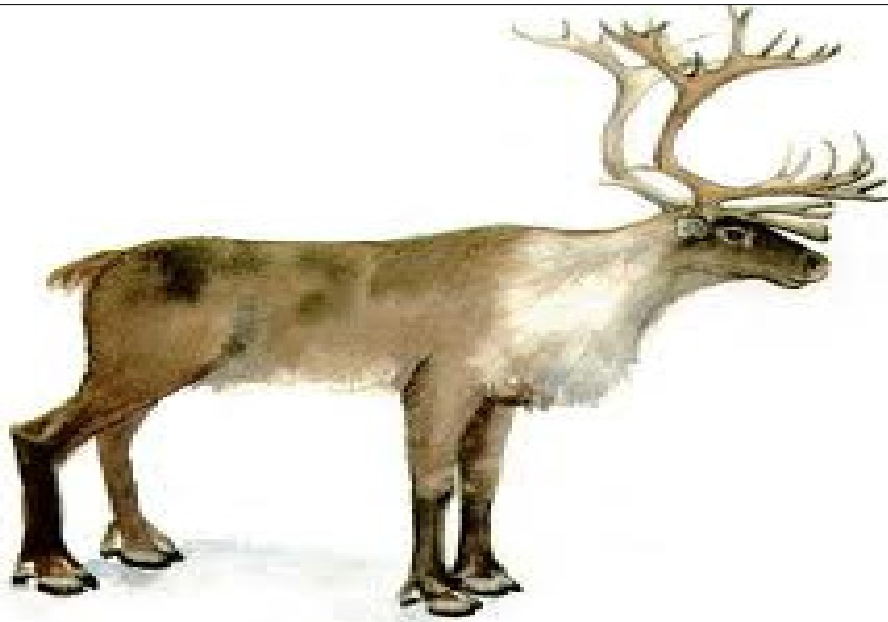
EQ: How is a population different from a community?

What Is Ecology?



“The study of the household [of nature]”





An individual is a single organism.

What Is a Population?



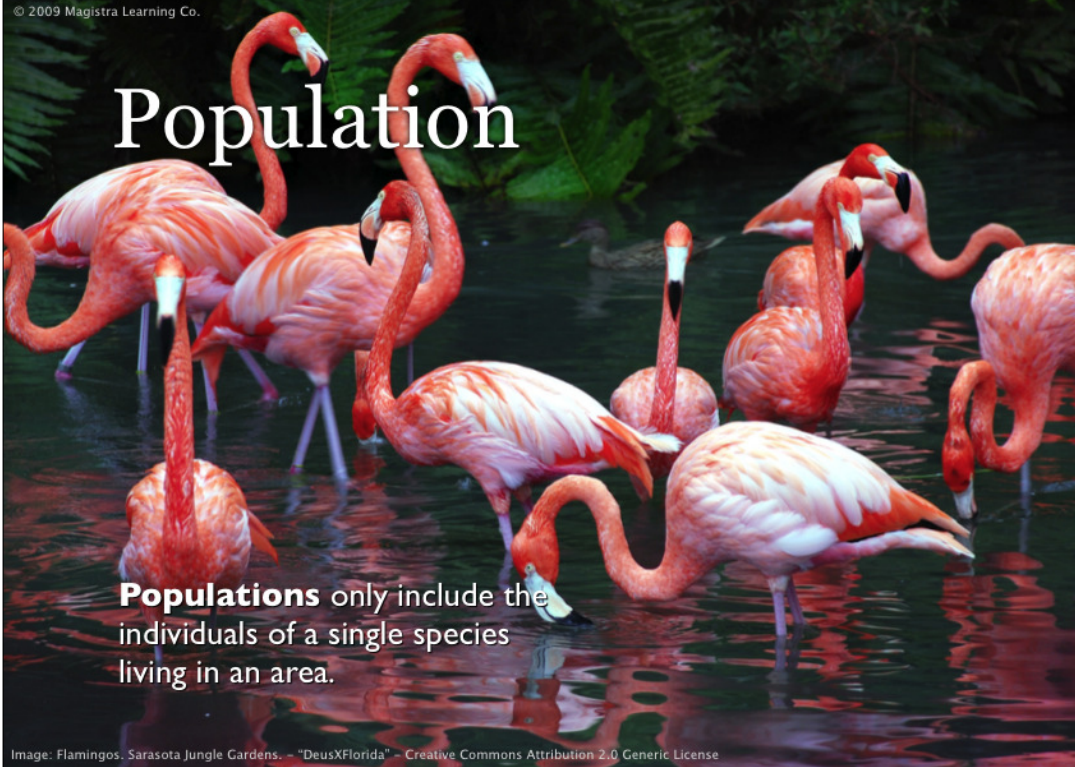
A population is all the members of one species in an area at one time.

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Population

Populations only include the individuals of a single species living in an area.

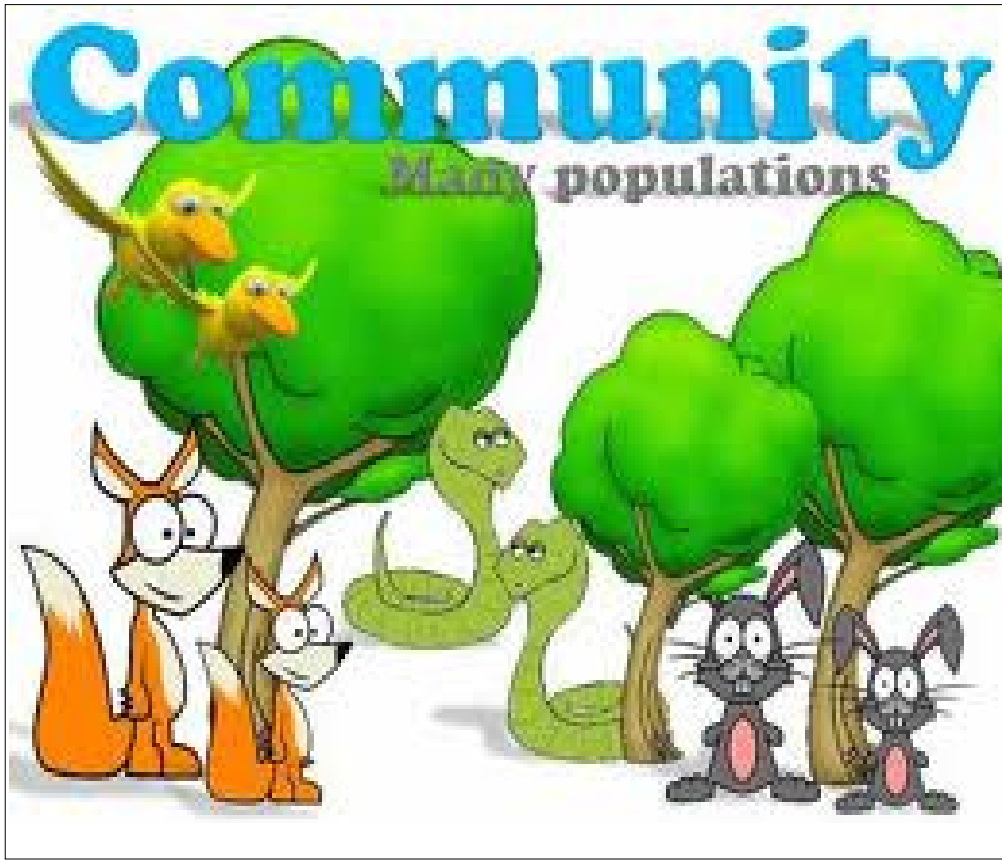
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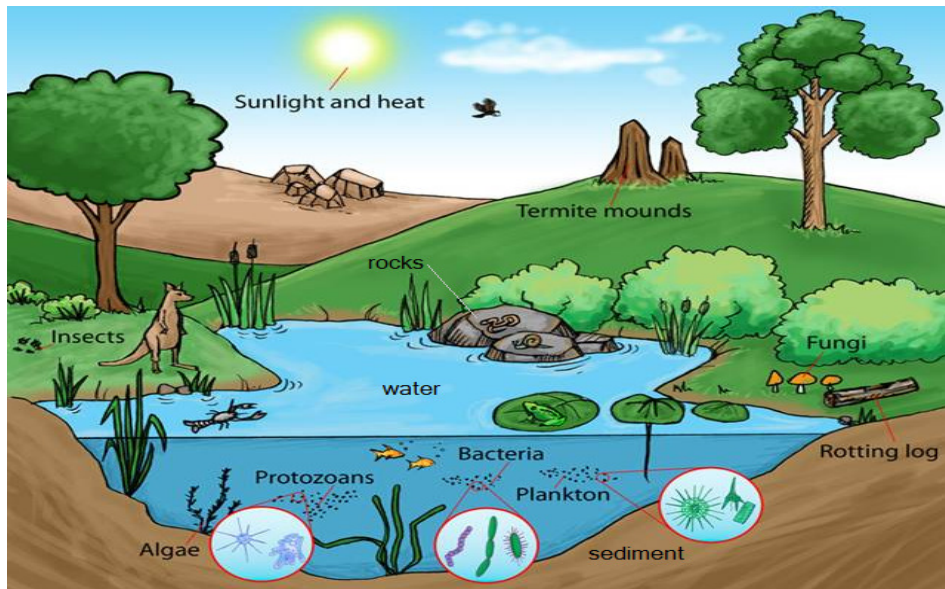
What Is a Community?



A community is all of the organisms in a particular area at one time.



What is an ecosystem?

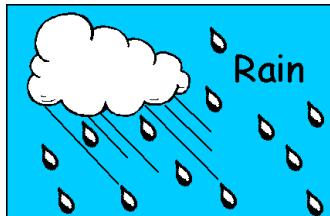
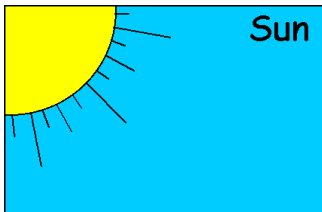


An **ecosystem** includes all of the biotic factors and all of the abiotic factors.

Biotic factors are factors that are alive or once were alive.



Abiotic factors are factors that were never alive.



What is a biome?



A **biome** is a large region characterized by a specific climate and certain kinds of plants and animals. Examples- rainforest, desert