

Chapter 8
Understanding Populations
8.1 How Populations Change in Size
8.2 How Species Interact with Each Other

8.1 Objectives

- ☐ **Describe** the three main properties of a population.
- ☐ **Describe** exponential population growth.
- ☐ **Describe** how the reproductive behavior of individuals can affect the growth rate of their population.
- ☐ **Explain** how population sizes in nature are regulated.

What Is a Population?

- ☐ _____ is a group of organisms of the same species that live in a specific geographical area and interbreed.
- ☐ A population is a reproductive group because organisms usually breed with members of their own population.
- ☐ The word *population* refers to the group in general and also to the size of the population, or the _____ it contains.

Properties of Populations

- ☐ _____ is the number of individuals of the same species in that live in a given unit of area.
- ☐ _____ is the pattern of distribution of organisms in a population. A population's dispersion may be even, clumped, or random.
- ☐ Size, density, dispersion, and other properties can be used to describe populations and to predict changes within them.

How Does a Population Grow?

- ☐ A population gains individuals with each new offspring or birth and loses them with each death.
- ☐ The resulting population change over time can be represented by the equation below.



How Does a Population Grow?

- ☐ _____ is an expression of the increase in the size of an organism or population over a given period of time. It is the birth rate minus the death rate.
- ☐ Overtime, the growth rates of populations change because birth rates and death rates increase or decrease.
- ☐ For this reason, growth rates can be _____.

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