

# Population Growth Patterns

## Population Growth

- **Population** = a group of organisms of the same species living in the same place
- **Exponential growth**
  - Population grows without limit
  - Ex. human population
- **Logistic growth**
  - **carrying capacity**: the theoretical maximum population that a given environment can support
  - Population grows quickly at first and then levels off
  - Ex. most natural populations (fish, rabbits, trees, etc.)

**Population density** measures the number of individual organisms living in a defined space

- Determined by limiting factors such as ...
  - Birth
  - Immigration
  - Death
  - Emigration

Then density dependent/independent factors take effect

## Limiting factors

- **Limiting factors** = aspects of the environment that limit the size a population can reach
- limiting factors can be **biotic** or **abiotic**
- limiting factors can also be classified as density-dependent or density-independent

# Population Growth Patterns Study Guide

**Robert R. Redfield**



## **Population Growth Patterns Study Guide:**

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