

## EDITABLE STUDY GUIDE- ECOSYSTEMS AND ENERGY FLOW

**Ecology Study Guide**

**Section 1: Ecosystems and Energy Flow**

1. Define the following terms:

- Abiotic:** Non-living components of an ecosystem.
- Biotic:** Living components of an ecosystem.
- Community:** A group of interacting populations of different species in a common location.
- Ecosystem:** A community of living organisms interacting with their physical environment.
- Biome:** A large-scale community of plants and animals that occupies a major part of the land or water surface of the Earth.

2. Describe the flow of energy in an ecosystem.

Energy flows from the sun to producers (autotrophs) through photosynthesis. Producers convert solar energy into chemical energy stored in organic molecules. This energy is then transferred to consumers (heterotrophs) through feeding. Energy is lost from the system as heat at each stage of the flow.

3. Explain the difference between a producer and a consumer.

Producers (autotrophs) are organisms that can synthesize their own food using inorganic materials and energy from the sun. Consumers (heterotrophs) are organisms that cannot produce their own food and must obtain energy by consuming other organisms.

4. Describe the role of decomposers in an ecosystem.

Decomposers (detritivores) are organisms that break down dead organic matter into simpler inorganic compounds, returning nutrients to the soil and completing the cycle of matter.

5. Draw a diagram of an ecosystem showing the flow of energy.

**Ecology Study Guide**

**Section 2: Communities and Population Growth**

1. Define the following terms:

- Population:** A group of individuals of the same species living in the same area.
- Community:** A group of interacting populations of different species in a common location.
- Ecosystem:** A community of living organisms interacting with their physical environment.
- Biome:** A large-scale community of plants and animals that occupies a major part of the land or water surface of the Earth.

2. Describe the factors that limit population growth.

Population growth is limited by both biotic and abiotic factors. Biotic factors include competition for resources, predation, and disease. Abiotic factors include temperature, water availability, and space.

3. Explain the difference between a population and a community.

A population consists of individuals of a single species, while a community includes individuals of multiple species interacting with each other.

4. Describe the role of a keystone species in a community.

A keystone species is a species that has a disproportionately large effect on its environment relative to its abundance. Its removal can lead to significant changes in the community structure.

5. Draw a diagram of a community showing the interactions between different species.

## EDITABLE STUDY GUIDE- COMMUNITIES AND POPULATION GROWTH

**Ecology Study Guide**

**Section 3: Communities and Population Growth**

1. Define the following terms:

- Population:** A group of individuals of the same species living in the same area.
- Community:** A group of interacting populations of different species in a common location.
- Ecosystem:** A community of living organisms interacting with their physical environment.
- Biome:** A large-scale community of plants and animals that occupies a major part of the land or water surface of the Earth.

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A keystone species is a species that has a disproportionately large effect on its environment relative to its abundance. Its removal can lead to significant changes in the community structure.

5. Draw a diagram of a community showing the interactions between different species.

**Ecology Study Guide**

**Section 4: Communities and Population Growth**

1. Define the following terms:

- Population:** A group of individuals of the same species living in the same area.
- Community:** A group of interacting populations of different species in a common location.
- Ecosystem:** A community of living organisms interacting with their physical environment.
- Biome:** A large-scale community of plants and animals that occupies a major part of the land or water surface of the Earth.

2. Describe the factors that limit population growth.

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3. Explain the difference between a population and a community.

A population consists of individuals of a single species, while a community includes individuals of multiple species interacting with each other.

4. Describe the role of a keystone species in a community.

A keystone species is a species that has a disproportionately large effect on its environment relative to its abundance. Its removal can lead to significant changes in the community structure.

5. Draw a diagram of a community showing the interactions between different species.

# Study Guide Ecology El Camino College

**Jessica J Manson**



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*Summer Programs for Kids and Teenagers* Peterson's Guides Staff,2006-11-13 Updated information is presented on more than 3 000 summer camps arts programs sports clinics academic courses travel tours and wilderness adventures A Fast Facts Quick Reference Chart helps parents compare programs at a glance      **National Union Catalog, 1982** ,1983

*National Union Catalog* ,1982 Includes entries for maps and atlases      **Peterson's Summer Opportunities for Kids and Teenager's 1993** Peterson's Guides,1992-10 The 1 300 plus programs described in this easy to use guide are offered by private schools colleges camps religious organizations travel and sports groups and others An easy to scan chart makes it easy for readers to quickly identify the programs and activities which range from precollege academic programs sports bike and wilderness trips music theater and the arts and more      **Films and Other Materials for Projection** Library of Congress,1978      **Pilgrims** Darius Liutikas,2020-11-20 Values rich journeys can be described as pilgrimage spiritual travel personal heritage tourism holistic tourism and valuistic journeys There are many motivations for undertaking these journeys the most important being personal values life experience personal and social identity lifestyle social and cultural influence

This book presents contributions that address pilgrim motivation identity and values as they are shaped by the broader sociological psychological cultural and environmental perspectives The focus of the book is the travellers themselves and their inner world through the lens of their pilgrimage The research presented focuses on the typology of pilgrim journeys as ways in which identity and values are presented to a post modern consumer society providing interesting and challenging perspectives on the identity of pilgrims in the 21st century      Congressional Record United States. Congress,1999 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

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