

ECOLOGY:

Ecology - The study of organisms in the Biosphere and how they react to each other and their environment.

Biosphere - Everywhere life is found on Earth.

Biome - Group of ecosystems that share similar climates and living organisms.

Ecosystem - All organisms that live in a particular area and their physical environment.

Community - All different populations that live near each other.

Population - Group of individuals that belong to the same species and live in the same area.

Species - Group of similar organisms that can breed and reproduce together.

Biodiversity - The variety of life in the world or in a particular habitat or ecosystem.

CHEMISTRY OF LIFE:

All living things are made of atoms.

Atoms - Made out of protons (+) and neutrons in the nucleus, and electrons (-) that orbit the nucleus.

- We are made out of these atoms put together in different organic chemical compounds.

Carbohydrates - simple sugars, starches

Lipids - fats, oil, waxes

Proteins - structure (muscles) and enzymes

Nucleic acids - DNA or RNA



ECOLOGY - COMMUNITY INTERACTIONS

Competition - Occurs when organisms compete for the same resource at the same place at the same time.

Predation - An interaction in which one organism captures and feeds on another organism.

Symbiosis - Any relationship in which two species live closely together.

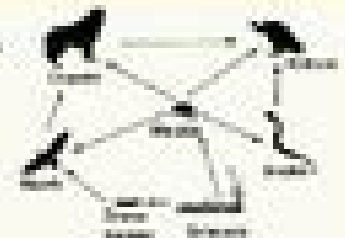
Mutualism - A type of symbiosis in which both species mutually benefit from the relationship.

Commensalism - A type of symbiosis in which one organism benefits and another is neither helped nor harmed.

Parasitism - A type of symbiosis in which one organism lives on or inside the other organism and harms it.

FOOD WEBS & ENERGY PYRAMIDS:

- Food webs show the feeding relationships between plants and animals in an ecosystem.
- Arrows show the relationships. They show the direction of energy transfer. (the organism that the arrow is pointing to eats the organism the arrow is coming from)
- Energy pyramids show the relative amounts of energy at each trophic level. The amount of energy is greatest at the bottom of the pyramid and lowest at the top of the pyramid.
- Trophic Level - Each step in a food web or pyramid.



PREFIXES/SUFFIXES TO KNOW:

Bio - Life (biology is the study of life)

Geo - Earth (geology is the study of the earth)

Hetero - Different (heterozygous means different genes)

Homo - Same (homozygous means same/similar genes)

A - Not (achete is not a plant, not living)

Thermo - Heat/temperature (thermostats)

Eco - Environment/outdoors (ecology is the study of outdoors)

Chem - Chemical (chemosynthesis is creating chemicals)

Photo - Light (photography uses light to take pictures)

Synthetic - Created (photosynthesis uses light to create food)



Biology Eoc Study Guide Answers 2013

Michelle Rose

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EOC Biology Michelle Rose, 2005

Application of next-generation sequencing for cancer drug repositioning Zhi Li, Fengfeng Zhou, Chi Zhang, Huidan Zhang, 2022-12-29

Global change ecology: threats and solutions Ming-Chih Chiu, Qinghua Cai, Jhih-Rong Liao, Kozo Watanabe, Vincent Resh, 2024-10-22 Global Change Ecology promotes the understanding of how globally important changes in the environment disrupt all aspects of ecological systems Especially the environmental changes that are driven by human influences and natural processes e.g. climate change urbanization biological invasion and pollution resulting in biodiversity loss and eco-evolutionary deleterious impacts at the scales of populations communities or ecosystems Alternatively the recognition of ecological responses can enhance their resilience and resistance to environmental disturbances in different ecological systems For example the implications of these environmental threats on biodiversity and ecosystems can boost the interventions of strategies and the development of new techniques The management solutions developed aim to increase environmental sustainability and mitigate the ecological impacts on biota in the Anthropocene By collecting multi-disciplinary efforts in the form of primary research articles or perspective reviews we can comprehensively understand how global change influences the biota and consequently construct valuable adaptation strategies This Research Topic will examine the effects of a variety of environmental stresses on different organisms e.g. plants vertebrates invertebrates microorganisms in a range of biomes e.g. terrestrial freshwater and marine

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