

## Unit 9: Ecology

### Essential Skills

- 9-1. Be able to draw, label and give examples of an **energy pyramid** with 4 levels. (CCS: 6e-f)
- 9-2. Be able to explain the roles of **Photosynthesis** and **Respiration** in the **Carbon Cycle**, or the **Water Cycle**. (CCS: 6d)
- 9-3. Be able to explain and give an example of problems associated with either removing a species from an **ecosystem** or introducing a **non-native species** to an ecosystem. (CCS: 6a-b)

**Vocabulary** – You should be able to define and use the words in bold. (see website for a complete list)

### Study Guide

1. What is the difference between a **food chain** and a **food web**? Why is a food web a better depiction of an ecosystem?

A food chain shows the energy flow through a single feeding relationship. A food web shows the energy flow between all organisms in a community.

2. Draw and label an **energy pyramid** that contains 4 trophic levels. Include the terms **producer**, **primary consumer**, **secondary consumer**, **tertiary consumer**, **decomposer**, **autotroph**, **heterotroph**, **photosynthesis** & **cellular respiration**, **herbivore**, **carnivore/omnivore**, **detrivore**. Give an example of an organism that would be in each level.



3. Explain why producers and decomposers are the most important members of any ecosystem?  
Producers provide the energy (food) for all other trophic levels. Decomposers breakdown dead organisms and provide nutrients for the soil. Without nutrients, the producers could not survive.
4. Why is the maximum size of any energy pyramid 5 levels? How much energy can be passed from one **trophic level** to the next? Where does the rest of the energy go?  
The ecological rule of thumb states that only 10% of the energy is passed on to each trophic level. By the 5<sup>th</sup> level, there would only be 0.001% of the energy from the producers still available. There is just not enough energy to support another trophic level.
5. What is **primary productivity** for an ecosystem? How is it measured? If there are 10,000 grams of **biomass** available at the producer level of an ecosystem, how much biomass would you expect to measure in the secondary consumer level?  
Primary productivity is the rate at which producers build biomass. It is measured in grams of biomass (the amount of organic matter) over time. If there are 10,000 grams of biomass available at the producer level, you would expect there to be 1,000 grams available at the primary consumer level and 100 grams at the secondary consumer level.
6. Differentiate between the following ecology terms: **Biosphere**, **Ecosystem**, **Community**, **Population**, and **Organism**.  
Biosphere – the global system  
Ecosystem – all of the living & non-living things in a region  
Community – all of the living things in a region  
Population – all of the organisms of a single species in a region  
Organism – a single individual in a species

# Modern Biology Ecosystems And Communities Answer Key

**Wenbin Ji**



## **Modern Biology Ecosystems And Communities Answer Key:**

**Strasburger's Plant Sciences** Andreas Bresinsky, Christian Körner, Joachim W. Kadereit, Gunther Neuhaus, Uwe Sonnewald, 2013-09-17 Structure physiology evolution systematics ecology     Marine Conservation Paleobiology Carrie L. Tyler, Chris L. Schneider, 2018-04-26 This volume describes and explores the emerging discipline of conservation paleobiology and addresses challenges faced by established and young Conservation Paleobiologists alike In addition this volume includes applied research highlighting how conservation paleobiology can be used to understand ecosystem response to perturbation in near and deep time Across 10 chapters the book aims to 1 explore the goals of conservation paleoecology as a science 2 highlight how conservation paleoecology can be used to understand ecosystems responses to crises 3 provide case studies of applications to modern ecosystems 4 develop novel applications of paleontological approaches to neontological data and 5 present a range of ecosystem response and recovery through environmental crises from high resolution impacts on organism interactions to the broadest scale of responses of the entire marine biosphere to global change The volume will be of interest to paleoecologists paleobiologists and conservation biologists     Encyclopedia of Modern Coral Reefs David Hopley, 2010-11-26 Coral reefs are the largest landforms built by plants and animals Their study therefore incorporates a wide range of disciplines This encyclopedia approaches coral reefs from an earth science perspective concentrating especially on modern reefs Currently coral reefs are under high stress most prominently from climate change with changes to water temperature sea level and ocean acidification particularly damaging Modern reefs have evolved through the massive environmental changes of the Quaternary with long periods of exposure during glacially lowered sea level periods and short periods of interglacial growth The entries in this encyclopedia condense the large amount of work carried out since Charles Darwin first attempted to understand reef evolution Leading authorities from many countries have contributed to the entries covering areas of geology geography and ecology providing comprehensive access to the most up to date research on the structure form and processes operating on Quaternary coral reefs     Fisheries Development Bjørn Hersoug, Svein Jentoft, Poul Degnbol, 2004 All coastal states have ambitions for the development of their fisheries Not only do fisheries play an important role in sustaining peoples livelihoods but also in many countries in the north and the south fisheries are important for the national economy Moreover fisheries are part of the process of globalisation which for better or worse means that fisheries issues and problems have implications that extend beyond the level of the nation state Fisheries development the institutional challenge is the result of a long term research programme on fisheries in developing countries The book explains how fisheries development strategies changed over the years from simple ideas of modernising the production equipment boats and gear to complex programmes involving management and institution building It highlights the role of the state and the community in resource management and the challenges offered by new concepts such as ecosystem management in a Third World setting Book jacket     **Federal Register** , 1999-11     *Holt Biology* Rob

DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008      **Modern Techniques in Soil Ecology** D. A. Crossley, D. C. Coleman, 1991 A scientific discipline is circumscribed if not exactly defined by the methods available to it The study of ecology of soil biota and its impact on ecosystems of importance to human activities requires a broader base of measurements often of a multidisciplinary nature This volume reviews current methods and provides an overview of emerging techniques in major areas of soil ecology It is based on papers presented at a workshop Modern Techniques in Soil Ecology Seven overview papers were followed by 40 contributed papers describing new developments in the measurement of soil properties the organisms inhabiting the soil and their impacts on soil processes      *A Sourcebook for the Community of Religions* Joel Diederik Beversluis, 1993 Sourcebook of resource information about different religions including their origins and beliefs      Bulletin National Catholic Educational Association, 1962      *Conservation Biology* Michael E. Soulé, Gordon Orians, 2001-07 One of the fastest growing scientific disciplines in recent history is conservation biology A response of the scientific community to the massive environmental changes taking place on Earth its goal is to enable society to anticipate prevent and reduce ecological damage and to generate the scientific information from which effective conservation strategies and policies can be designed and implemented In 1989 the Society for Conservation Biology and Island Press produced Research Priorities for Conservation Biology a slim volume that set forth the findings of experts who had gathered to outline research needs for the near future and which served as a guidepost for the field throughout the 1990s In January 2000 leaders of the Society for Conservation Biology convened a similar group to reach consensus on where the field now stands and to determine the major compelling research priorities for the next decade Conservation Biology Research Priorities for the Next Decade presents the results of that gathering The book notes progress or changes in the state of global biodiversity over the past decade and discusses overarching themes that influence all areas of conservation offers ten chapters by leading experts that summarize the status of knowledge in key areas ranging from marine conservation to ecological restoration to conservation medicine sets forth research priorities for each area describes gaps in current knowledge that are impeding the ability of conservation practitioners to carry out their work A final synthesis chapter brings together cross cutting themes that integrate the diverse topics within the context of global biodiversity loss and presents a call to action for scientists and others working in the field Conservation Biology Research Priorities for the Next Decade represents an indispensable guide to the research that is most urgently needed to support effective conservation and will be must reading for anyone involved with the field of conservation biology      **Report of the Proceedings and Addresses of the ...** National Catholic Educational Association, 1961      **NCEA Bulletin** National Catholic Educational Association, 1962      **Star 21** National Research Council (U.S.). Board on Army Science and Technology, 1993      Foundations for a National Biological Survey Ke Chung Kim, Lloyd Knutson, 1986      Selected Water Resources Abstracts, 1991-03      Bulletin Catholic Educational Association, 1962 Nov issue includes Proceedings of the annual meeting      **El-Hi Textbooks in Print**, 1977      **Global Ecology and Biogeography**

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