

## CHAPTER 18 ACTIVE READING WORKSHEETS

**INTRODUCTION TO ECOLOGY****Section 18-4: Ecosystem Recycling**

Read the passage below, which covers topics from your textbook. Answer the questions that follow.

All organisms need nitrogen to make proteins and nucleic acids. The complex pathway that nitrogen follows within an ecosystem is called the **nitrogen cycle**. However, most plants can use nitrogen only in the form of nitrate. The process of converting nitrogen gas to nitrate is called **nitrogen fixation**. Organisms rely on the actions of **nitrogen-fixing** bacteria that are able to transform nitrogen gas into a usable form. Nitrogen-fixing bacteria live in the soil and in the roots of some kinds of plants, such as beans, peas, clover, and alfalfa.

Decomposers break down the corpses and wastes of organisms and release the nitrogen they contain as ammonia,  $\text{NH}_3$ , which in soil becomes ammonium,  $\text{NH}_4^+$ .

This process is known as **ammonification**. Through ammonification, nitrogen that would otherwise be lost is reintroduced into the ecosystem. Bacteria in the soil take up the ammonium and oxidize it into nitrites,  $\text{NO}_2^-$ , and nitrate,  $\text{NO}_3^-$ .

This process is called **nitrification**. The erosion of nitrate-rich rocks also releases nitrate into an ecosystem. Plants use nitrates to form amino acids. Nitrogen is returned to the atmosphere through **denitrification**. Denitrification occurs when anaerobic bacteria break down nitrate and release nitrogen gas back into the atmosphere.

Write your answers in the spaces provided.

**SKILL: Sequencing Information**

1. Order the statements to show the steps by which nitrogen is recycled within an ecosystem. Write "1" on the line in front of the statement that describes what happens first. Write "2" on the line in front of the statement that describes what happens next, and so on.

- \_\_\_\_\_ a. Bacteria in the soil oxidize the ammonia into nitrites and nitrate.
- \_\_\_\_\_ b. Plants use nitrates to form amino acids.
- \_\_\_\_\_ c. Decomposers break down corpses and wastes of organisms.
- \_\_\_\_\_ d. Nitrogen is released into the ecosystem as ammonia.

# Chapter18 Section 1 Introduction To Ecology Answers

**A Loxley**



## **Chapter18 Section 1 Introduction To Ecology Answers:**

**Ecology** David T. Krohne,2018 Ecology Evolution Application Integration Second Edition takes a unique evolutionary approach to ecology focusing on the concepts of the discipline and the human impact on ecosystems Helping students develop their scientific reasoning skills this text teaches them not only what we know about the field but how we know it

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management Mega cities Planning issues Planning development and management Public safety Revitalisation strategies Socio economic issues Spatial modelling Strategy Sustainable transportation and transport integration The community and the city Traffic and transportation Urban rural relationships Economics Today--the Micro View Roger LeRoy Miller,1991

**Introduction to Marine Biology** George Karleskint,Richard Turner,James W. Small,2006 Master marine biology with INTRODUCTION TO MARINE BIOLOGY with InfoTrac With a student friendly writing style this biology text sets itself apart by taking an ecological approach to the study of marine biology by providing succinct coverage of key topics and through the use of the best illustrations and photos currently available Studying is made easy with phonetic pronunciations key terms end of chapter questions websites provided at the end of the chapter and lists of biology related InfoTrac articles found throughout the text Understanding Schoolyard Ecology Harry F. Betros,1972 **Asian Atmospheric Pollution** Ramesh P. Singh,2021-08-31 Asian Atmospheric Pollution Sources Characteristics and Impacts provides a concise yet comprehensive treatment of all aspects of pollution and air quality monitoring across all of Asia It focuses on key regions of the world and details a variety of sources their transport mechanism long term variability and impacts on climate at local and regional scales It also discusses the feedback on pollutants on different meteorological parameters like radiative forcing fog formations precipitation cloud characteristics and more Drawing upon the expertise of multiple well known authors from different countries to underline some of these key issues it includes sections dedicated to treatment of pollutant sources studying of pollutants and trace gases using satellite station based observations and models transport mechanisms seasonal and inter annual variability and impact on climate health and biosphere in general Asian Atmospheric Pollution Sources Characteristics and Impacts is a useful resource for scientists and students to understand the sources and dynamics of atmospheric pollution as well as their transport from one continent to other continents helping the atmospheric modelling community to model different scenarios of the pollution gauge its short term and long term impacts across regional to global scales and better understand the ramifications of episodic events Covers all of Asia in detail in terms of pollution Focuses not only on local pollution but on long term transport of these pollutants and their impacts on other regions as well as the globe Includes discussion of both particulate matter and greenhouse gases Serves as a single resource on Asian air pollution and Impacts from the most current research across the globe including the US Asia Africa and Europe **Efficiency and Sustainability in the Energy and Chemical Industries** Krishnan Sankaranarayanan,2004-01-21 Translating fundamental principles of irreversible thermodynamics into day to day engineering concepts this reference provides the tools to accurately measure process efficiency and sustainability in the power and chemical industries helping engineers to recognize why losses occur and how they can be reduced utilizing familiar thermodynamic princi **Size- and Age-Related Changes in Tree Structure and Function** Frederick C. Meinzer,Barbara Lachenbruch,Todd E. Dawson,2011-06-29 Millions of trees live and grow all around us and we all recognize the vital role they play in the world s ecosystems Publicity campaigns exhort us to

plant yet more Yet until recently comparatively little was known about the root causes of the physical changes that attend their growth Since trees typically increase in size by three to four orders of magnitude in their journey to maturity this gap in our knowledge has been a crucial issue to address Here at last is a synthesis of the current state of our knowledge about both the causes and consequences of ontogenetic changes in key features of tree structure and function During their ontogeny trees undergo numerous changes in their physiological function the structure and mechanical properties of their wood and overall architecture and allometry This book examines the central interplay between these changes and tree size and age It also explores the impact these changes can have at the level of the individual tree on the emerging characteristics of forest ecosystems at various stages of their development The analysis offers an explanation for the importance of discriminating between the varied physical properties arising from the nexus of size and age as well as highlighting the implications these ontogenetic changes have for commercial forestry and climate change This important and timely summation of our knowledge base in this area written by highly respected researchers will be of huge interest not only to researchers but also to forest managers and silviculturists The Science Teacher ,1982 Some issues are accompanied by a CD ROM on a selected topic *The Journal of Wildlife Management* ,1995 **Study Guide** George Karleskint,1991 Ecology Michael Lee Cain,2008 Environment population interactions communities ecosystem Human Biology Sylvia S. Mader,2008 The relationship between humans and other living things is emphasised in this text Students are provided with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere Economics Today Roger LeRoy Miller,1985 **Shoreline Master Program Handbook** Washington (State). Department of Ecology,1994 *Ecology* Peter Muecke Attiwill,Barbara A. Wilson,2006 Shortlisted for The BPA Print Group Best Designed Tertiary and Further Education Book in the 55th Annual APA Book Design Awards 2007 Ecology An Australian Perspective is uniquely and wholly Australian It is the only textbook of ecology that deals comprehensively with the ecological principles and practice of plant and animal ecology in an Australian context New to this edition Four new chapters on population ecology New chapter on community ecology More on the fundamental theory of ecology New structure to better fit the way ecology is taught Congratulations to author PeterAttiwill who was made a member of the Order of Australia in the recent Queen s birthday honours for service to science particularly in the field of forest ecology as an academic researcher and author *Ecology and Metabolism of Plant Lipids* Glenn Fuller,1987

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