

3.4 Cycles of Matter

Lesson Objectives

-  Describe how matter cycles among the living and nonliving parts of an ecosystem.
-  Describe how water cycles through the biosphere.
-  Explain why nutrients are important in living systems.
-  Describe how the availability of nutrients affects the productivity of ecosystems.

Lesson Summary

Recycling in the Biosphere _____, unlike energy, is _____ within and between ecosystems. Elements pass from one organism to another and from one part of the biosphere to another through _____, which are closed loops powered by the flow of energy.

The Water Cycle Water moves between the _____, the _____, and _____.

- ▶ Evaporation is the process in which water changes from a liquid to a gas.
- ▶ Transpiration is the process in which water evaporates from the leaves of plants. Other steps in the water cycle include _____.

Nutrient Cycles The chemical substances that an organism needs to survive are called _____. Like water, nutrients pass through organisms and the environment.

- ▶ **Carbon Cycle:** Carbon is a key ingredient of all _____. Processes involved in the carbon cycle include photosynthesis and human activities such as burning.
- ▶ **Nitrogen Cycle:** Nitrogen is needed by all organisms to _____. Processes involved in the nitrogen cycle include _____ and _____.
 - In **nitrogen fixation**, certain _____ convert _____ into _____.
 - In **denitrification**, other soil _____ nitrogen compounds called _____ back into _____.
- ▶ **Phosphorus Cycle:** Phosphorus is needed for molecules such as _____ and _____. Most of the phosphorus in the biosphere is _____ and _____. Stored phosphorus is gradually released into water and soil, where it is used by organisms.

Nutrient Limitation A nutrient that, in short supply, can limit the productivity of an ecosystem is called a _____.

Section The Cycles Of Matter Answer Key

KJ Lindholm-Leary



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Gaia's Body Tyler Volk, 2012-12-06 If the biosphere really is a single coherent system then it must have something like a physiology It must have systems and processes that perform living functions In *Gaia's Body* Tyler Volk describes the environment that enables the biosphere to exist various ways of looking at its anatomy and physiology the major biogeographical regions such as rainforests deserts and tundra the major substances the biosphere is made of and the chemical cycles that keep it in balance He then looks at the question of whether there are any long term trends in the earth's evolution and examines the role of humanity in *Gaia's* past and future Both adherents and sceptics have often been concerned that *Gaia* theory contains too much goddess and too few verifiable hypotheses This is the book that describes for scientists students and lay readers alike the theory's firm basis in science *Chemistry in a Month* John Wilkinson, 2003

Air Pollution Calculations Daniel A. Vallero, 2023-09-17 *Air Pollution Calculations* Quantifying Pollutant Formation Transport Transformation Fate and Risks Second Edition enhances the systems science aspects of air pollution including transformation reactions in soil water sediment and biota that contribute to air pollution This second edition will be an update based on research and actions taken since 2019 that affect air pollution calculations including new control technologies emissions measurement and air quality modeling Recent court cases regulatory decisions and advances in technology are discussed and where necessary calculations have been revised to reflect these updates Sections discuss pollutant characterization pollutant transformation and environmental partitioning Air partitioning physical transport of air pollutants air pollution biogeochemistry and thermal reactions are also thoroughly explored The author then carefully examines air pollution risk calculations control technologies and dispersion models The text wraps with discussions of economics and project management reliability and failure and air pollution decision making Provides real life current cases as examples of quantitation of emerging air pollution problems Includes straightforward derivation of equations giving practitioners and instructors a direct link between first principles of science and applications of technologies Presents example calculations that make scientific theory real for the student and practitioner **Environmental Systems Science** Daniel A. Vallero, 2021-05-27 *Environmental Systems Science* Theory and Practical Applications looks at pollution and environmental quality from a systems perspective Credible human and ecological risk estimation and prediction methods are described including life cycle assessment feasibility studies pollution control decision tools and approaches to determine adverse outcome pathways fate and transport sampling and analysis and cost effectiveness The book brings translational science to environmental quality applying groundbreaking methodologies like informatics data mining and applications of secondary data systems Multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making The book bridges the perspectives of scientists engineers and other professionals working in numerous environmental and public health fields addressing problems like toxic substances

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Rainbow, 2016-04-19 Does a change which affects a few biological macro molecules some cells or a few individuals within a
population have any ecological significance that would allow the prediction of deleterious effects at higher levels of biological
organization namely the population community and ultimately the ecosystem With contributions from experts in t **CSIR**
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