

# Biogeochemical Cycles Webquest

In this webquest you will search for information that will answer questions about the water, carbon/oxygen, and nitrogen cycles using the listed websites. Answer all questions in the spaces provided. The easiest way to answer the questions is to take your time! Don't rush through the websites, take your time finding the correct answer. The sites have lots of good information and are interesting, stay on task!

## Water Cycle

**Introduction** Precipitation, evaporation, and condensation are all terms that you recognize, but what do they really mean? They are all part of the water cycle, which is a complex process that not only gives us water to drink, and food to eat, but also helps our plants grow. Only about 3% of the Earth's water is fresh, and 1% of that water can be used for many human purposes. Why can't we use the other 2% of the fresh water found on the Earth? What about the other 97% of the water found in the world? To find these answers and to discover more, come along for an interactive journey through the water cycle!



Use the following websites to complete the questions on water.

Websites <http://www.mhgned.net/fresh/cycle/index.htm>,  
<http://www.mhgned.net/fresh/cycle/concept.htm>,  
<http://www.mhgned.net/fresh/cycle/cycle.htm>.

Check out these websites for more information:

<http://www.biology.arizona.edu/biochemistry/tutorial/biochemistry/page3.html>  
[http://www.wmorton.com/college/chemistry/gilbert/tutorial/chapter\\_05/water\\_h\\_bond/index.html](http://www.wmorton.com/college/chemistry/gilbert/tutorial/chapter_05/water_h_bond/index.html)

### Questions

1. Evaporation is the process where a liquid changes from its \_\_\_\_\_ state to a \_\_\_\_\_ state.
2. Why is evaporated water so clean?

# Biogeochemical Cycles Webquest Answers

**DP Hallahan**



## **Biogeochemical Cycles Webquest Answers:**

Global biogeochemical cycles Butcher,1992-08-12 *Global biogeochemical cycles* *Biogeochemical Cycles and Climate*

A. J. Dolman,2019 Changing concentrations of greenhouse gasses are key to our changing climate *Biogeochemical Cycles and Climate* examines the interaction of the main biogeochemical cycles of the earth with the physics of climate from the perspective of the earth as an integrated system *Biogeochemical cycles* play a fundamental role in the Earth s system they describe the movement of matter and transfer of energy around the planet This text aims to answer some fundamental questions How have the cycles of key nutrients such as carbon nitrogen phosphorous and water changed both in the geological past and more recently through the impact of humans on the Earth System How do these cycles interact with each other and affect the physical properties of climate How can we use this knowledge to mitigate some of the impacts of changing biogeochemistry on climate and the Earth s habitability and resilience Understanding the complex interactions of biogeochemistry with the Earth s climate is crucial for understanding past and current changes in climate and above all for the future sustainable management of our planet *The Major Biogeochemical Cycles and Their Interactions* Bert Bolin,Robert B. Cook,1983 **Interactions of C, N, P, and S Biogeochemical Cycles and Global Change** R. Wollast,Fred T. Mackenzie,Lei Chou,1993 This book is a natural extension of the SCOPE Scientific Committee of Problems on the Environment volumes on the carbon C nitrogen N phosphorus P and sulfur S biogeochemical cycles and their interactions Likens 1981 Bolin and Cook 1983 Substantial progress in the knowledge of these cycles has been made since publication of those volumes In particular the nature and extent of biological and inorganic interactions between these cycles have been identified positive and negative feedbacks recognized and the relationship between the cycles and global environmental change preliminarily elucidated In March 1991 a NATO Advanced Research Workshop was held for one week in Melreux Belgium to reexamine the biogeochemical cycles of C N P and S on a variety of time and space scales from a holistic point of view This book is the result of that workshop The biogeochemical cycles of C N P and S are intimately tied to each other through biological productivity and subsequently to problems of global environmental change These problems may be the most challenging facing humanity in the 21 st century In the broadest sense global change encompasses both changes to the status of the large globally connected atmospheric oceanic and terrestrial environments e g tropospheric temperature increase and change occurring as the result of nearly simultaneous local changes in many regions of the world e g eutrophication **Interactions of the Major Biogeochemical Cycles** Jerry M. Melillo,Christopher B. Field,Bedřich Moldan,2003 Table of contents **Some Perspectives of the Major Biochemical Cycles** G.E. LIKENS (ed),1981-10-07 *Biogeochemical cycles of carbon nitrogen and sulphur Interactions between major biogeochemical cycles Socio economic impacts on biogeochemical cycles* **The handbook of environmental chemistry. 1, The natural environment and the biogeochemical cycles** : E Otto Hutzinger,1990 **The Natural Environment and the Biogeochemical Cycles** Otto

Hutzinger,2014-09-01 The Natural Environment and the Biogeochemical Cycles William Sefton Fyfe,H. Puchelt,M. Taube,1992 *The Natural Environment and the Biogeochemical Cycles* ,2013-06-29 An important purpose of The Handbook of Environmental Chemistry is to aid the understanding of distribution and chemical reaction processes which occur in the environment Volume 1 Part E of this series is dedicated to Environmental Systems Physical Properties of the Atmosphere Global Transport and the Thermodynamics of Ecosystems **The Natural Environment and the Biogeochemical Cycles** H. J. Bolle,1980 *The Natural Environment and the Biogeochemical Cycles* H. J. M Bowen,1980 *Biogeochemical Cycles* Katerina Dontsova,Zsuzsanna Balogh-Brunstad,Gaël Le Roux,2020-04-14 Elements move through Earth's critical zone along interconnected pathways that are strongly influenced by fluctuations in water and energy The biogeochemical cycling of elements is inextricably linked to changes in climate and ecological disturbances both natural and man made Biogeochemical Cycles Ecological Drivers and Environmental Impact examines the influences and effects of biogeochemical elemental cycles in different ecosystems in the critical zone Volume highlights include Impact of global change on the biogeochemical functioning of diverse ecosystems Biological drivers of soil rock and mineral weathering Natural elemental sources for improving sustainability of ecosystems Links between natural ecosystems and managed agricultural systems Non carbon elemental cycles affected by climate change Subsystems particularly vulnerable to global change The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book from this Q A with the Author Book Review [http://www.elementsmagazine.org/archives/e16\\_6/e16\\_6\\_dep\\_bookreview.pdf](http://www.elementsmagazine.org/archives/e16_6/e16_6_dep_bookreview.pdf) **Chemical Cycles and the Global Environment** Robert Minard Garrels,Fred T. Mackenzie,Cynthia Hunt,1975 *Inverse Methods in Global Biogeochemical Cycles* Prasad Kasibhatla,2000-01-10 The CD ROM contains the code and data files for the Exercises outlined in the paper by Rayner et al p 81 106 *Biogeochemical Cycling of Mineral-forming Elements* P. A. Trudinger,Dalway J. Swaine,1979-01-01 Biogeochemical cycling of elements The carbon cycle Calcification by bacteria and algae Carbonate turnover and deposition by metazoa Carbonate dissolution Carbon turnover calcification and growth in coral reefs Biogeochemistry of phosphate minerals The phosphorus cycle quantitative aspects and the role of man Biogeochemistry of iron Biogeochemistry of manganese minerals Sulfur Silicon Uranium Agriculture Industry *Biogeochemical Cycles* ,2010 *The Natural Environment and the Biogeochemical Cycles [Vol 1A-1E]*. Hutzinger O.,1982 **Biogeochemical Cycles** Wageningen University,2008 *Cycling of Carbon, Nitrogen, Sulfur, and Phosphorus in Terrestrial and Aquatic Ecosystems* John Raymond Freney,I. E. Galbally,1982-01-01

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