

# WATER, CARBON AND NITROGEN CYCLES



Directions: Color and make a key for each biogeochemical cycle. As you read about each cycle answer the following questions:

#### THE WATER CYCLE

- 1. Name three important needs for water.
- How is water distributed through the biosphere?
- 3. What draws water back to the earth?
- 4. What is transpiration?
- 5. What determines which plants to grow where?
- 6. What is an aquifer?
- Name two ways water travels from land to enter the ocean.
- 8. What does runoff include?
- How much water enters the hydrologic cycle?
- 10. How much water falls back as rain?

## THE CARBON CYCLE

- What are macronutrients? Micronutrients?
- What is the role of each of the following in the carbon cycle? State an example of each.
  - a. Primary producers
  - b. Secondary producers
  - c. Decomposers
- 3. Where is most of the Earth's carbon located and in what form?
- 4. How does carbon enter the biotic part of the ecosystem?
- 5. What function do plants have in the forest in the carbon cycle?
- 6. How is carbon dioxide returned to the atmosphere?
- 7. What is a primary producer?
- 8. What happens when primary and secondary consumers die?
- 9. What do detritus feeders contribute to the carbon cycle?
- 10. What is a fossil fuel?
- 11. How does carbon get in the oceans?

# THE NITROGEN CYCLE

- What percent of the air is nitrogen?
- Why is nitrogen essential to life?
- 3. How do plants and animals get nitrogen if not from the atmosphere?
- 4. What are nitrogen fixing bacteria?
- 5. What is a major reservoir for ammonia?
- 6. Why do herbivores need nitrogen?
- 7. What is denitrification?

# THE PHOSPORUS CYCLE

- Why is phosphorus an important biological molecule?
- What happens to phosphorus that erodes from rock and soil?
- 3. How are phosphates incorporated into the organic molecules in plants and animals?
- 4. What happens to the phosphates when plants and animals die?
- 5. What happens to the phosphorous that is carried by runoff to the oceans?
- 5. What happens to the phosphorus unit the organic molecules in aquatic plants and animals?
  6. How are phosphates incorporated into the organic molecules in aquatic plants and animals?
- 6. How are phosphates incorporated into the secondaries and animals?
  7. What is different about the phosphorus cycle as compared to the water, carbon, and nitrogen cycles?

# **Water Carbon And Nitrogen Cycle Answers**

Robert R. Redfield

Water Carbon And Nitrogen Cycle Answers:

Whispering the Secrets of Language: An Psychological Journey through Water Carbon And Nitrogen Cycle Answers

In a digitally-driven world wherever displays reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases frequently move unheard. Yet, located within the pages of **Water Carbon And Nitrogen Cycle Answers** a interesting fictional value pulsating with organic thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that wonderful opus encourages readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within ab muscles fabric of each and every word. Within the mental depths of the poignant review, we will embark upon a honest exploration of the book is core subjects, dissect their captivating writing style, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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