

## WATER, CARBON AND NITROGEN CYCLE WORKSHEET/COLORSHEET



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?
- 9. How much water enters the hydrologic cycle?
- 10. How much water falls back as rain?

#### THE CARBON CYCLE

- 1. What are macronutrients? Micronutrients?
- 2. 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

- 1. 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

- 1. Why is phosphorus an important biological molecule?
- 2. 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?
- 6. How are phosphates incorporated into the organic molecules in aquatic plants and animals?
- 7. What is different about the phosphorus cycle as compared to the water, carbon, and nitrogen cycles?

# **Water Carbon Nitrogen Cycle Color Sheet Answers**

**American Chemical Society** 

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Water Carbon Nitrogen Cycle Color Sheet Answers," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## **Table of Contents Water Carbon Nitrogen Cycle Color Sheet Answers**

- 1. Understanding the eBook Water Carbon Nitrogen Cycle Color Sheet Answers
  - The Rise of Digital Reading Water Carbon Nitrogen Cycle Color Sheet Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Water Carbon Nitrogen Cycle Color Sheet Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Water Carbon Nitrogen Cycle Color Sheet Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Water Carbon Nitrogen Cycle Color Sheet Answers
  - Personalized Recommendations
  - Water Carbon Nitrogen Cycle Color Sheet Answers User Reviews and Ratings

- Water Carbon Nitrogen Cycle Color Sheet Answers and Bestseller Lists
- 5. Accessing Water Carbon Nitrogen Cycle Color Sheet Answers Free and Paid eBooks
  - Water Carbon Nitrogen Cycle Color Sheet Answers Public Domain eBooks
  - Water Carbon Nitrogen Cycle Color Sheet Answers eBook Subscription Services
  - Water Carbon Nitrogen Cycle Color Sheet Answers Budget-Friendly Options
- 6. Navigating Water Carbon Nitrogen Cycle Color Sheet Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Water Carbon Nitrogen Cycle Color Sheet Answers Compatibility with Devices
  - Water Carbon Nitrogen Cycle Color Sheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Water Carbon Nitrogen Cycle Color Sheet Answers
  - Highlighting and Note-Taking Water Carbon Nitrogen Cycle Color Sheet Answers
  - Interactive Elements Water Carbon Nitrogen Cycle Color Sheet Answers
- 8. Staying Engaged with Water Carbon Nitrogen Cycle Color Sheet Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Water Carbon Nitrogen Cycle Color Sheet Answers
- 9. Balancing eBooks and Physical Books Water Carbon Nitrogen Cycle Color Sheet Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Water Carbon Nitrogen Cycle Color Sheet Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Water Carbon Nitrogen Cycle Color Sheet Answers
  - Setting Reading Goals Water Carbon Nitrogen Cycle Color Sheet Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Water Carbon Nitrogen Cycle Color Sheet Answers
  - Fact-Checking eBook Content of Water Carbon Nitrogen Cycle Color Sheet Answers
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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