

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 167

Peipei Pang

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