

## Skills Worksheet

**Critical Thinking****ANALOGIES**

Mark the letter of the pair of terms that best completes the analogy shown.

An analogy is a relationship between two pairs of words or phrases written as  $a : b :: c : d$ . The symbol  $:$  is read "is to," and the symbol  $::$  is read "as."

- \_\_\_\_\_ 1. producer : consumer ::  
a. car : driver  
b. factory : shopper  
c. deer : wolf  
d. photosynthesis : decomposition
- \_\_\_\_\_ 2. herbivores : omnivores ::  
a. photosynthesis : respiration  
b. elephant : ocean  
c. fruit : bird  
d. deer : bear
- \_\_\_\_\_ 3. carbon dioxide : carbon cycle ::  
a. fertilizer : phosphorus cycle  
b. atmospheric nitrogen : nitrogen cycle  
c. decomposers : carbon cycle  
d. limestone : carbon cycle
- \_\_\_\_\_ 4. deep ocean : hydrogen sulfide ::  
a. sunlight : deep ocean  
b. darkness : sunlight  
c. surface : carbon dioxide  
d. photosynthesis : sunlight
- \_\_\_\_\_ 5. oxygen : cellular respiration ::  
a. cup : saucer  
b. carbon dioxide : photosynthesis  
c. plants : adaptation  
d. needle : thread
- \_\_\_\_\_ 6. climax forest : clear-cut forest ::  
a. plants : animals  
b. food web : food chain  
c. sun : fire  
d. full : empty

**Critical Thinking** *continued*

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**INTERPRETING OBSERVATIONS**

**Read the following passage, and then answer the questions below.**

Your family is considering buying a house near a nature preserve that has been established to maintain a portion of the original ecosystem. You attend a meeting in which the developer is explaining the plans for the project. One woman in the audience complains that she does not like the natural prairie grasses on the nature preserve. She wants the grasses removed and replanted with an imported grass. A man in the audience suggests that exotic animals on the preserve would make it more beautiful. One woman proposes that the developer construct a playground in the center of the preserve and build a paved road to it. She wants picnic tables set up throughout the preserve for family picnics.

- 7.** What would be your response to the woman who wants to replace the native grasses?

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- 8.** What would be your response to the man who wants exotic animals placed on the site?

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- 9.** What would be your response to the woman who wants to put a playground on the site?

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**Critical Thinking** *continued*

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**AGREE OR DISAGREE**

**Agree or disagree with the following statements, and support your answer.**

**10.** There would be no life on Earth without the sun.

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**11.** Our activities do not affect the carbon cycle.

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**12.** A severe drought in a grassland will reduce the number of consumers in the entire energy pyramid.

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**Critical Thinking** *continued*

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**REFINING CONCEPTS**

**The statements below challenge you to refine your understanding of concepts covered in the chapter. Think carefully, and answer the questions that follow.**

- 13.** Explain why the difference between primary and secondary succession is not always clear.

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- 14.** Explain what you think would happen to the phosphorus, carbon, and nitrogen cycles if the sun were to burn out.

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