

**Chapter 16 Vocabulary Practice: Human Impact on Ecosystems**

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|------------------------------|--------------------------|--------------------------------|
| <i>nonrenewable resource</i> | <i>particulate</i>       | <i>biomagnification</i>        |
| <i>renewable resource</i>    | <i>acid rain</i>         | <i>habitat fragmentation</i>   |
| <i>ecological footprint</i>  | <i>greenhouse effect</i> | <i>introduced species</i>      |
| <i>pollution</i>             | <i>global warming</i>    | <i>sustainable development</i> |
| <i>smog</i>                  | <i>indicator species</i> | <i>umbrella species</i>        |

**A. Categorize Words** Write “R” next to words that can describe renewable resources. Write “N” next to words that can describe nonrenewable resources.

1. \_\_\_\_\_ wind                      \_\_\_\_\_ sunlight                      \_\_\_\_\_ oil
2. \_\_\_\_\_ coal                      \_\_\_\_\_ petroleum                      \_\_\_\_\_ water
3. \_\_\_\_\_ forest                      \_\_\_\_\_ deer                      \_\_\_\_\_ fish
4. What is the difference between a renewable and a nonrenewable resource?

\_\_\_\_\_

\_\_\_\_\_

**B. Who Am I?** Choose among these terms to answer the riddles below:

ecological footprint	indicator species	smog
global warming	introduced species	umbrella species

1. I am an organism that was brought into an ecosystem by humans and I can cause a lot of damage to native plants and animals that already live there: \_\_\_\_\_
2. I am the amount of land required to produce and maintain enough food and water, shelter, energy, and waste to support each person on Earth: \_\_\_\_\_
3. I am a type of air pollution: \_\_\_\_\_
4. I am a species that is sensitive to environmental changes and can provide a sign of the quality of my ecosystem’s environmental conditions: \_\_\_\_\_
5. I am the trend of increasing global temperatures: \_\_\_\_\_
6. I am a species that, if protected, will cause a number of other species to be protected as well: \_\_\_\_\_

**C. Matching** Write the vocabulary term next to its definition.

acid rain	biomagnification	particulate	pollution
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- \_\_\_\_\_ 1. Any undesirable factor added to the air, water, or soil.
- \_\_\_\_\_ 2. The process in which fat-soluble pollutants move from one organism to another, increasing in concentration as it moves up the food chain.
- \_\_\_\_\_ 3. A microscopic bit of dust, metal, or unburned fuel.
- \_\_\_\_\_ 4. A type of precipitation produced when pollutants in the water cycle cause rain pH to drop below normal levels.

ecological footprint	global warming	greenhouse effect	nonrenewable resource
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- \_\_\_\_\_ 5. Occurs when CO<sub>2</sub>, water, and methane molecules absorb energy reradiated by Earth's surface and slow the release of this energy from Earth's atmosphere.
- \_\_\_\_\_ 6. The amount of land necessary to produce and maintain enough food and water, shelter, energy, and waste to support each person on Earth.
- \_\_\_\_\_ 7. The trend of increasing global temperatures.
- \_\_\_\_\_ 8. Resources that are used faster than they can form.

habitat fragmentation	indicator species	introduced species	sustainable development
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- \_\_\_\_\_ 9. Occurs when a barrier forms that prevents an organism from accessing its entire home range.
- \_\_\_\_\_ 10. A practice in which natural resources are used and managed in a way that meets current needs without hurting future generations.
- \_\_\_\_\_ 11. Any organism that was brought to an ecosystem as a result of human actions.
- \_\_\_\_\_ 12. A species that provides a sign of the quality of an ecosystem's environmental conditions.

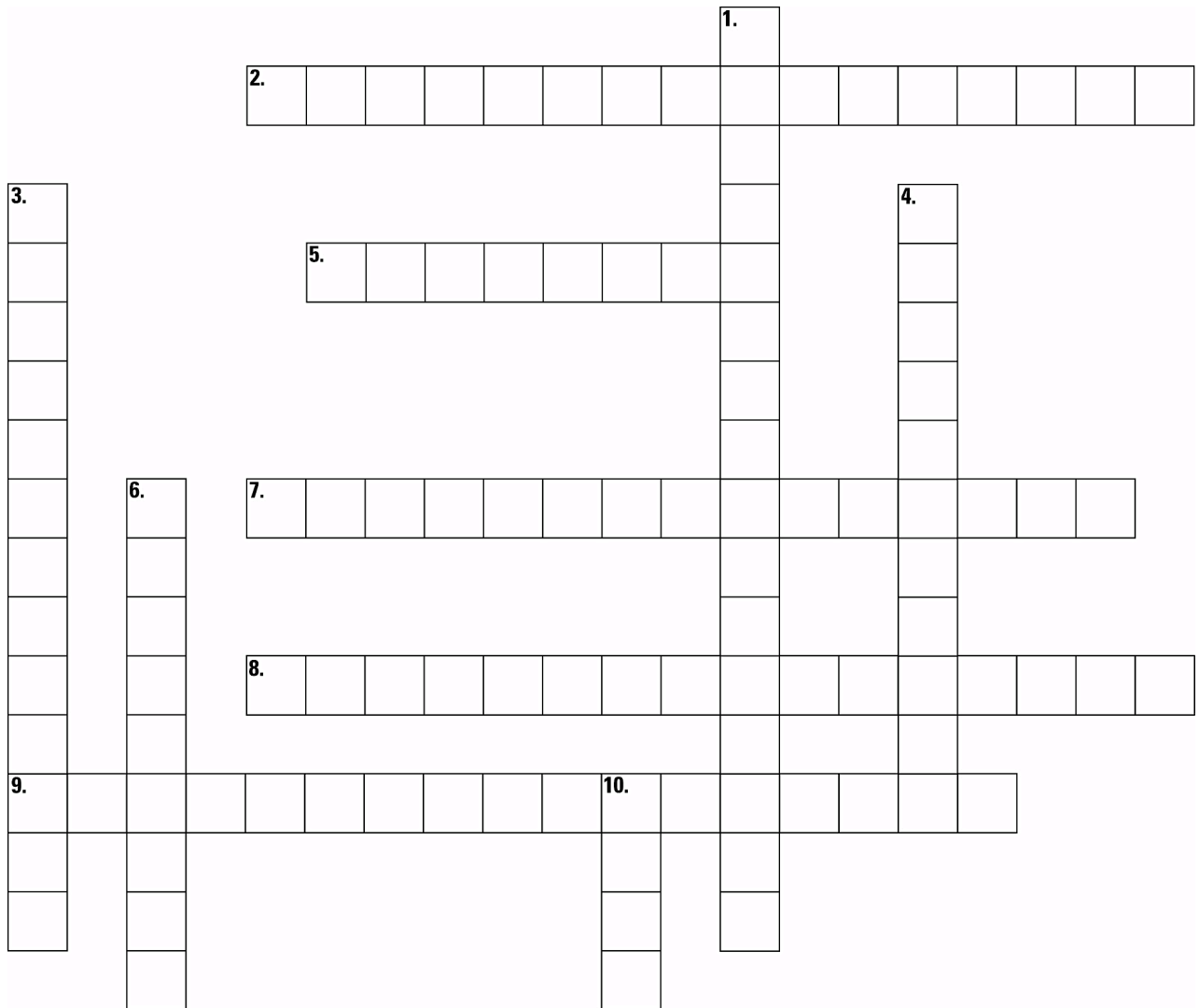
**D. Crossword Puzzle** Use the clues to solve the puzzle.

**Across**

- 2. Type of species that is sensitive to changes in its environment
- 5. Type of precipitation with a low pH caused by pollutants in the air
- 7. A species whose protection results in the protection of a number of other species
- 8. Process that results in a high concentration of pollutants in the body of a tertiary consumer
- 9. Kudzu in the United States

**Down**

- 1. A process that keeps heat from escaping Earth's atmosphere
- 3. Trend of increasing global temperatures
- 4. A tiny bit of dust, metal, or unburned fuel in the air
- 6. Smog, acid rain, or trash on a beach
- 10. Brown haze in the air caused by pollution



Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_