

● Matter and Energy

Check the statements that agree with the textbook. Rewrite the other statements so that they agree.

- 1. Energy moves through an ecosystem in the form of food.
- 2. Producers are organisms that capture energy from the sun and use it to carry out photosynthesis.
- 3. Consumers obtain energy when they break down the bodies of dead organisms.
- 4. A food chain is a model of energy transfer through a community.
- 5. Food chains usually have more than five links.
- 6. The amount of energy available in the first link of a food chain is less than the amount of energy available in the last link of the chain.
- 7. The second link of a food chain is usually a herbivore.
- 8. Some energy is lost each time energy is transferred in an ecosystem.
- 9. A food web is a model of many overlapping food chains.
- 10. All the energy available to the biosphere comes from the sun.
- 11. Producers capture and transform all the energy that reaches Earth's surface.
- 12. The base of an ecological pyramid represents the producers of an ecosystem.
- 13. An energy pyramid shows that energy increases at each successive feeding step.
- 14. Organisms today are using the same materials that have been used since life began.
- 15. Evaporation, condensation, and precipitation are parts of the water cycle.
- 16. The heat of the sun causes water on the surface of the Earth to evaporate.
- 17. When molecules of water vapor become colder, they move more rapidly.
- 18. Most organisms cannot use nitrogen directly from the atmosphere.
- 19. Bacteria associated with plants convert nitrogen to usable nitrogen compounds.
- 20. Nitrogen is the only element needed by living things that is returned to the environment.