

# Ecology Study Guide

## Energy Flow and Ecosystem Ecology

How do organisms in an ecosystem gain energy and matter?

|                |                |               |               |
|----------------|----------------|---------------|---------------|
| Energy Source  | Energy Source  | Energy Source | Energy Source |
| Autotrophs     | Producers      | Consumers     | Decomposers   |
| Photosynthesis | Chemosynthesis | Respiration   | Decomposition |



1. All energy originates at producers (autotrophs) in an ecosystem. \_\_\_\_\_
2. Matter cycles through an ecosystem. Matter enters an ecosystem from the \_\_\_\_\_.
3. The amount of energy that flows through an ecosystem is limited by the amount of energy that enters the system. \_\_\_\_\_
4. Matter is recycled, but energy flows through an ecosystem and is eventually lost. \_\_\_\_\_
5. The amount of energy that flows through an ecosystem is limited by the amount of energy that enters the system. \_\_\_\_\_
6. Energy flows through an ecosystem and is eventually lost. \_\_\_\_\_
7. Matter cycles through an ecosystem. \_\_\_\_\_
8. The amount of energy that flows through an ecosystem is limited by the amount of energy that enters the system. \_\_\_\_\_
9. Matter is recycled, but energy flows through an ecosystem and is eventually lost. \_\_\_\_\_
10. The amount of energy that flows through an ecosystem is limited by the amount of energy that enters the system. \_\_\_\_\_
11. Matter cycles through an ecosystem. \_\_\_\_\_



|   |  |   |
|---|--|---|
| <p>12. How do organisms in an ecosystem gain energy and matter?</p> <p>Energy Source: _____</p> |  | <p>13. How do organisms in an ecosystem gain energy and matter?</p> <p>Energy Source: _____</p> |
|---|--|---|

14. How do organisms in an ecosystem gain energy and matter? \_\_\_\_\_
15. How do organisms in an ecosystem gain energy and matter? \_\_\_\_\_
16. How do organisms in an ecosystem gain energy and matter? \_\_\_\_\_

# Chapter 54 Community Ecology Study Guide Answers

**Rachel S Tattersall**



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