

Ecology Study Guide

Energy Flow and Ecosystems

How do organisms in an ecosystem gain energy?

- 1. **Autotrophs** (Producers) - capture energy from the sun through photosynthesis.
- 2. **Consumers** (Herbivores, Carnivores, Omnivores) - obtain energy by eating other organisms.
- 3. **Decomposers** (Bacteria, Fungi) - break down dead organic matter, recycling nutrients.

1. All energy originates at **autotrophs** in an ecosystem.
2. Energy flows from **autotrophs** through various trophic levels (e.g., **herbivores**).
3. The amount of energy available decreases at each trophic level due to the **second law of thermodynamics**.
4. Energy is stored in the **chemical bonds** of molecules in an ecosystem.
5. The **ultimate source** of energy for all life is **the sun**.
6. **Energy** flows through an ecosystem and is **not** recycled.
7. **Energy** is lost as heat at each trophic level.
8. **Energy** flows from **producers** to **consumers** in an ecosystem.
9. **Energy** is stored in the **chemical bonds** of molecules in an ecosystem.
10. The **ultimate source** of energy for all life is **the sun**.
11. **Energy** flows through an ecosystem and is **not** recycled.



<p>12. Energy flows through an ecosystem and is not recycled.</p>		<p>13. Energy flows through an ecosystem and is not recycled.</p>
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14. **Energy** flows through an ecosystem and is **not** recycled.
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Chapter 54 Community Ecology Study Guide Answers

Aleksandra Jaeschke



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A Guide to Asking about Life for Teachers and TAs Donald L. Cronkite,2001

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Resources in Education ,1984

Im/Tb-Sustain the Earth Miller,2004-11

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