

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 that flows through different trophic levels decreases as it moves up the **food chain**.
4. Energy is stored in the **chemical bonds** of molecules in **organisms**.
5. The **second law of thermodynamics** states that as energy is transferred, some is **lost**.
6. **Energy** is **not** recycled in ecosystems, but the **matter** is.
7. The **rate** of energy flow is **high** in **terrestrial** ecosystems.
8. **Energy** flows from **autotrophs** to **herbivores** to **carnivores**.
9. **Energy** flows from **autotrophs** to **herbivores** to **carnivores**.
10. The **amount** of energy that flows through different trophic levels **decreases**.
11. **Energy** is **not** recycled in ecosystems, but the **matter** is.



12. Energy flows from autotrophs to herbivores to carnivores .	13. Energy flows from autotrophs to herbivores to carnivores .
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14. **Energy** flows from **autotrophs** to **herbivores** to **carnivores**.
15. **Energy** flows from **autotrophs** to **herbivores** to **carnivores**.
16. **Energy** flows from **autotrophs** to **herbivores** to **carnivores**.

Biology Ecology Unit Study Guide Answer Key

Ian Pickup



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Barron's how to Prepare for College Entrance Examinations Samuel C. Brownstein, Mitchel Weiner, 1974 A guide to preparing for college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English parts of the SAT Includes practice tests EPA-430/1 , 1979-05 Water Quality Instructional Resources Information System (IRIS) , 1979 **Ecology: Teacher's ed** , 2005 *Teacher's Wraparound Edition: Two Biology Everyday Experience* Albert Kaskel, 1994-04-19 **5 Steps to a 5 AP Environmental Science, 2014-2015 Edition** Linda D. Williams, 2013-07-24 Get ready for your AP exam with this straightforward and easy to follow study guide updated for all the latest exam changes 5 Steps to a 5 AP Environmental Science features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam Inside you will find 5 Step Plan to a Perfect 5 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 2 complete practice AP Environmental Science exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed scored and used *Study Guide for Race to Save the Planet Telecourse, 1999 Edition* Edward C. Wolf, 1998-06-09 Study Guide for the Annenberg Telecourse Designed to help telecourse students organize and comprehend the material presented on the 10 one hour television programs this Study Guide offers learning objectives exercises activities glossaries references and more for each of the 10 telecourse units In addition this guide presents three additional print only units to complete the course Faculty Guide for Race To Save The Planet Race To Save The Planet Telecourse Videotapes License For information about videos and print materials contact The Annenberg CPB Project P O Box 2284 South Burlington VT 05407 2284 1 800 LEARNER It includes specific learning objectives principle themes reading and writing assignments questions for discussion supplemental readings and a test bank for each lesson For information about licensing the telecourse contact PBS Adult Learning Service 1320 Braddock Place Alexandria VA 22314 1 800 ALS ALS 8

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