

Ecology and Energy Flow DBQ

Name: _____

1. Draw the food web based on the following information, and then complete the table with the trophic level(s) occupied by the organism.

2. Consider the trophic transfer efficiency of the Puget Sound orca food chain. Each of the species described below is the dominant species in their trophic level so understanding energy transfers among these four species goes a long way toward understanding energy transfers in the whole ecosystem. Based on the information provided below, your job is to:

- Draw the food chain.
- Create a data table that includes each organism in the food chain, its trophic level, the energy it is able to acquire, its biomass and the number of individuals per square meters.
- Draw the pyramid of numbers
- Draw the pyramid of biomass.
- Draw the pyramid of energy (with a calculation of the percent of energy transferred from each trophic level to the next)

For each pyramid, please:

- Include a title
- Be neat. Drawings should be clear with straight lines (doing your pyramid on graph paper would be a good idea)
- Include the actual numbers (with units) inside or next to the box on the ecological pyramid.
- Write a brief evaluation whether and why the pyramids make sense given the patterns of trophic efficiencies described in your notes.

Organism Name	What it eats	Trophic Level(s)
Krill	Phytoplankton	2
Phytoplankton	Autotrophic	1
Sperm whales	Penguins Squid Seals	3 or 4
Killer whales	Penguins Seals	
Storm-petrel	Krill	
King Penguins	Squid Fish	
Royal Penguin	Squid Fish	
Crabeater Seals	Krill	
Fish	Krill Phytoplankton	
Squid	Phytoplankton Krill	
Weddel Seal	Krill Squid Fish	
Leopard Seals	Krill Penguins	

Data and information

The resident orcas of Southern Puget Sound are the top predators of the Puget Sound food chain. Their preferred food is salmon, whose numbers have been seriously declining over the last decade. The salmon feed mostly on zooplankton, in particular, euphausiid krill, which in turn feed on phytoplankton, the primary producers of the marine ecosystem.

Roughly 1,700,000 kcal/m²/yr of sunlight is used by 809 g/m² of primary producers, roughly 17,597 individuals per square meter. The primary producers are able to convert 8,863 kcal/m²/yr of the solar energy into chemical energy. The 912 primary consumers per square meter (37 g/m² of biomass) are able to utilize 1,478 kcal/m²/yr of that energy. However, only 67 kcal/m²/yr is passed on to the 11 g/m² of secondary consumers. The 0.5 secondary consumers per square meter are eaten by the 0.03 third

Ecology And Energy Flow Dbq Answers

John Phillipson



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Table of Contents Ecology And Energy Flow Dbq Answers

1. Understanding the eBook Ecology And Energy Flow Dbq Answers
 - The Rise of Digital Reading Ecology And Energy Flow Dbq Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ecology And Energy Flow Dbq Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ecology And Energy Flow Dbq Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ecology And Energy Flow Dbq Answers
 - Personalized Recommendations
 - Ecology And Energy Flow Dbq Answers User Reviews and Ratings
 - Ecology And Energy Flow Dbq Answers and Bestseller Lists

5. Accessing Ecology And Energy Flow Dbq Answers Free and Paid eBooks
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 - Ecology And Energy Flow Dbq Answers eBook Subscription Services
 - Ecology And Energy Flow Dbq Answers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Ecology And Energy Flow Dbq Answers Compatibility with Devices
 - Ecology And Energy Flow Dbq Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ecology And Energy Flow Dbq Answers
 - Highlighting and Note-Taking Ecology And Energy Flow Dbq Answers
 - Interactive Elements Ecology And Energy Flow Dbq Answers
8. Staying Engaged with Ecology And Energy Flow Dbq Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ecology And Energy Flow Dbq Answers
9. Balancing eBooks and Physical Books Ecology And Energy Flow Dbq Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ecology And Energy Flow Dbq Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ecology And Energy Flow Dbq Answers
 - Setting Reading Goals Ecology And Energy Flow Dbq Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ecology And Energy Flow Dbq Answers
 - Fact-Checking eBook Content of Ecology And Energy Flow Dbq Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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