Ecology and Energy Flow DBQ

Name:

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

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Energy Flow through the Ecological Pyramid ,2021 Energy Flow in Ecosystems Eugene P. Odum,

Environment, Power, and Society for the Twenty-first Century Howard Thomas Odum, 2007 Through this method Odum reveals the similarities between human economic and social systems and the ecosystems of the natural world In the process we discover that our survival and prosperity are regulated as much by the laws of energetics as are systems of the physical and chemical world Also includes information on agriculture animals available energy biomass capitalism civilization consumption cycles diversity earth economy ecosystems empower alternative energy environment evolution fossil fuels fuels growth information kinetic energy energy laws matter metabolism microcosm models of energy systems nations nature organic matter organization overgrowth oxygen photosynthesis power production pulses ratios respiration self organization society solar energy storage structure sustainability systems networks transpiration waste work yields etc **Energy Basis** for Man and Nature Howard Thomas Odum, Elisabeth C. Odum, 1976 **Energy Flow Efficiency in Ecosystems** David Mass and energy flow in closed ecosystems R.M. May, 1973 Wendell Garrison, 1967 Mass and energy flow in **closed ecosystems** R.E. ULANOWICZ,1972 Fourth and Eighth Grade Students' Conceptions of Energy Flow **Energy and Ecology** David Murray Gates, 1985 This book is **Through Ecosystems** Ashlie Beals Arkwright, 2014 concerned with the ecological and environmental consequences of energy extraction conversion use and discharge It contains accounts of world energy resources and reserves and of their rates of use and expected lifetimes The utilization of any energy form whether it be renewable or nonrenewable has ecological and environmental consequences from Preface page xi Population Energy Flow of Three Primary Consumer Components of Old-field Ecosystems Eugene Pleasants

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