

Ecological Pyramids: Virtual Lab

Energy Flow in a Terrestrial Ecosystem: Virtual Lab

Place the organisms in the correct trophic levels in computerized pyramids for the 4 different ecosystems in the table. After students correctly placed all the organisms, this thinking is the same for the pyramids of energy.

1. Grassland Pyramids of Energy

| Organism | 1st Trophic Level (Producers) | 2nd Trophic Level (Primary Consumers) | 3rd Trophic Level (Secondary Consumers) | 4th Trophic Level (Tertiary Consumers) |
|---------------------|----------------------------------|--|--|---|
| Grassland Producer | 1000 | 100 | 10 | 1 |
| Grassland Primary | 1000 | 100 | 10 | 1 |
| Grassland Secondary | 1000 | 100 | 10 | 1 |
| Grassland Tertiary | 1000 | 100 | 10 | 1 |

After you have selected all organisms correctly, fill your Ecological Energy level table space. To obtain your total ecological efficiency, subtract the 4th trophic level from the 1st. Divide this new differential energy value by the energy leaving the energy at the lowest trophic level. If the grass area is split that compare one for producers, only one amount was obtained. Complete this for all three of your ecosystems.

Ecological

| | | |
|--|--|--|
| $\frac{\text{Ecological Energy Level 1} - \text{Ecological Energy Level 4}}{\text{Ecological Energy Level 1}} = \text{Efficiency}$ | $\frac{\text{Ecological Energy Level 1} - \text{Ecological Energy Level 4}}{\text{Ecological Energy Level 1}} = \text{Efficiency}$ | $\frac{\text{Ecological Energy Level 1} - \text{Ecological Energy Level 4}}{\text{Ecological Energy Level 1}} = \text{Efficiency}$ |
|--|--|--|

2. Aquatic Ecosystem Energy Flow

| Organism | 1st Trophic Level (Producers) | 2nd Trophic Level (Primary Consumers) | 3rd Trophic Level (Secondary Consumers) |
|----------------------|----------------------------------|--|--|
| 1. Aquatic Producer | 1000 | 100 | 10 |
| 2. Aquatic Primary | 1000 | 100 | 10 |
| 3. Aquatic Secondary | 1000 | 100 | 10 |
| 4. Aquatic Tertiary | 1000 | 100 | 10 |

6. In ecological you receive observable of the following ecological and ecological.

1000 100 10 1

7. Ecological show produce 1000 that energy from the lowest level available in the next level up.

Ecological energy = 1000

Ecological energy = 100

Ecological energy = 10

Ecological energy = 1

Mcgraw Hill Biology Laboratory Manual Answers

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Biological Sciences**

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Biology Sylvia S. Mader, 2004 This text covers the concepts and principles of biology from the structure and function of the cell to the organization of the biosphere It draws upon the world of living things to bring out an evolutionary theme The concept of evolution gives a background for the study of ecological principles

Laboratory Manual for Biotechnology and Laboratory Science Lisa A. Seidman, Mary Ellen Kraus, Diana Lietzke Brandner, Jeanette Mowery, 2022-12-23 Provides the basic laboratory skills and knowledge to pursue a career in biotechnology Written by four biotechnology instructors with over 20 years of teaching experience it incorporates instruction exercises and laboratory activities that the authors have been using and perfecting for years These exercises and activities help students understand the fundamentals of working in a biotechnology laboratory Building skills through an organized and systematic presentation of materials procedures and tasks the manual explores overarching themes that relate to all biotechnology workplaces including forensic clinical quality control environmental and other testing laboratories Features Provides clear instructions and step by step exercises to make learning the material easier for students There are Lab Notes for Instructors in the Support Material see tab below Emphasizes fundamental laboratory skills that prepare students for the industry Builds students skills through an organized and systematic presentation of materials procedures and tasks Updates reflect recent innovations and regulatory requirements to ensure students stay up to date Supplies skills suitable for careers in forensic clinical quality control environmental and other testing laboratories

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A Guide to Laboratory Animal Technology Martin D Buckland, Lynda Hall, Alan Mowlem, 2013-10-22 A Guide to Laboratory Animal Technology is a compilation of experiences of animal technicians with regard to laboratory animals in both research and breeding establishments This book discusses common laboratory species individually with reference to anatomy reproduction maintenance methods of handling and identification Studies on the common diseases found on these species are also provided All aspects of laboratory animal husbandry are considered including equipment SPF techniques transport and law This selection also includes a guide to examination technique and basic mathematics section that can help students with little experience in either field This text aims to provide an introduction and guide for the newcomers and students of the profession as well as a useful comprehensive reference work for all those concerned with animals

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Laboratory Manual of Colloid Chemistry Harry Nicholls Holmes, 1922

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William Joseph Morse - History of His Work with Soybeans and Soyfoods (1884-2017) William Shurtleff, Akiko Aoyagi, 2017-07-21 Revised 2nd edition with roughly twice as many pages and twice as many photos as the 1st edition of 2011 The world's most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 235 photographs and illustrations Free of charge in digital PDF format on Google Books

Children's Books in Print, 2007, 2006

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Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e.g. the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists biochemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the

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