

AP Biology CH 42 Ecosystems and Energy

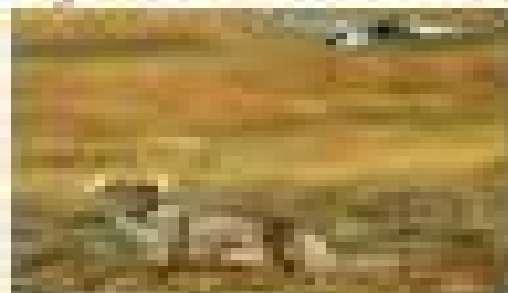


Figure 42.1

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- 42.1: Biological communities exchange matter with abiotic surroundings via respiration.
- 42.2: Energy enters the ecosystem through photosynthesis in autotrophs.
- 42.3: Energy transfer between producers involves gross primary productivity.
- 42.4: Biological and geochemical processes cycle nutrients and water in ecosystems.
- 42.5: Biogeochemical cycles connect biological processes and geochemical cycles.

Physical Science/Energy Flow in Ecosystems

- a. gross primary productivity is the total amount of organic matter produced by all the autotrophs in an ecosystem while net primary productivity is the amount of organic matter that is left over after accounting for the energy used by the autotrophs.
- b. Energy enters the ecosystem as light. It is then converted to chemical energy by autotrophs, primarily by photosynthesis in the light-dependent reactions of food web organisms as glucose.
- c. Both producers and consumers incorporate matter and energy through photosynthesis and respiration respectively. At the energy flow through organisms, unlike matter which is recycled.
- d. The flow of energy through an ecosystem is one-way and unidirectional. Matter and energy transform separate from one another as chemical energy is transformed for the movement of energy from one organism to another.

Chapter 42 Ap Biology Notes

Lauren Gardner



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Sharks of the World Leonard J. V. Compagno, Food and Agriculture Organization of the United Nations, 2001-01-01 An extensively rewritten revised and updated version of the original FAO Catalogue of Sharks of the World This volume reviews all 15 families 25 genera and 57 species of living bullhead mackerel and carpet sharks including certain well established but currently undescribed species mainly from Australia Comprehensive Commentary on the Holy Bible ,1874 **Primate Evolution and Human Origins** Russell L. Ciochon, 2017-09-08 Primate Evolution and Human Origins compiles for the first time the major ideas and publications that have shaped our current view of the evolutionary biology of the primates and the origin of the human line Designed for freshmen to graduate students in anthropology paleontology and biology the book is a unique collection of classic papers culled from the past 20 years of research It is also an important reference for academicians and researchers as it covers the entire scope of primate and human evolution with an emphasis on the fossil record A comprehensive bibliography cites over 2000 significant articles not found in the main text *Sharks of the World* Leonard J. V. Compagno, Food and Agriculture Organization of the United Nations, 2001 **Readers' Guide to Periodical Literature** ,1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books *Reader's Guide to Periodical Literature Supplement* ,1923 *United States Code* United States, 2018 *Rockwood and Green's Fractures in Adults* Robert W. Bucholz, 2012-03-29 In its thoroughly revised updated Seventh Edition Rockwood and Green's Fractures in Adults offers a complete print and multimedia package the established gold standard two volume reference on fractures and access to an integrated content website More than 80 of the world's foremost authorities provide comprehensive coverage of all bone and joint injuries thoroughly discuss alternative methods for treating each injury and present their own preferred methods This edition has 33 new contributors and new chapters on principles of nerve injury and complex regional pain syndrome psychological aspects of trauma gunshot and wartime injuries principles of mangled extremity management amputations limb salvage reconstruction principles of post traumatic infections principles of nonunions and principles of malunions **Technical Note** ,1918 *Co-operative Index to Leading Periodicals ...* William Isaac Fletcher, 1891 Bookseller and the Stationery Trades' Journal ,1879 The Bookseller ,1879 Social Sciences and Humanities Index ,1916 Biological & Agricultural Index ,1928 Agricultural Index ,1929 **Subject Index to Periodicals** ,1928 *The Subject Index to Periodicals* ,1929 **The Coöperative Index to Periodicals for ...** ,1891 **Class List of Best Books** Library Association, 1906 International Index to Periodicals ,1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts

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