

Biology Chapter 1 Notes

1. Lesson 1A 1.1 Life is More Than the Sum of Its Parts
 - a. Biology: study of life, past and present
 - b. Defining "life" is a challenge
 - c. Complex properties, including life, emerge from the interactions of simple parts
 - d. **Emergent property: characteristic of a system that does not appear in any of the system's component parts**
2. **Population is a group of interbreeding* individuals (same species) in a defined area.**
 - i. Example: coyotes (*Canis latrans*) living in New York City (that would be a very small population), more on this in the following slides
3. **L1A 1.2 Life's Unity**
 - a. **Some Key Features of life**
 - i. Cellular
 1. All living things consist of **one or more cells**.
 - ii. Requirement for energy and nutrients
 1. Life is sustained by ongoing inputs of energy and nutrients.
 - iii. **Homeostasis**
 1. **Living things sense and respond appropriately to change.**
 - iv. DNA is hereditary material
 1. Genetic information in the form of DNA is passed to offspring.
4. **Energy and Nutrients (1 of 2)**
 - a. Nutrient: substance that an organism needs for growth and survival but cannot make for itself
 - b. Producers: organism that makes its own food using energy and nonbiological raw materials
 - i. Photosynthesis: producers use light energy to make sugars from carbon dioxide and water
 - c. Consumers: organism that gets energy and nutrients by feeding on tissues, wastes, or remains of other organisms
 - d. **Energy is not cycled**
 - e. **It flows through the world of life in one direction: from the environment through organisms, and back to the environment**
5. **Homeostasis**
 - a. Every living thing has the ability to sense and respond to change both inside and outside of itself
 - b. **Homeostasis: process by which living organisms keep internal conditions/environment within tolerable ranges by sensing and responding to change**
6. **DNA is Hereditary Material**
 - a. **DNA** (deoxyribonucleic acid) carries hereditary information that guides:
 - b. **Development: multistep process by which the first cell of a new multicelled organism gives rise to an adult**

Biology Chapter 1 Notes

RM Cervero



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Sea Grant Publications Index, 1968-72 ,1973 *Sea Grant Publications Index* ,1968 *The Midland Naturalist* ,1888

A History of Experimental Psychology Edwin Garrigues Boring,1929 **Promoting Reproductive Security in Developing Countries** Maurice I. Middleberg,2005-12-29 Promoting Reproductive Security in Developing Countries provides a comprehensive approach to developing and implementing reproductive health programs in the developing world It fills a major gap in the literature by responding to the global need for a detailed guide to comprehensive reproductive health services Promoting Reproductive Security in Developing Countries furnishes an innovative conceptual model reproductive security and offers an in depth analysis of major reproductive health issues The need for skilled dedicated professionals is great Those who choose to pursue the discipline are promised an endlessly rewarding and absorbing profession that will touch upon the most intimate aspects of life while reverberating globally This book will be of great interest to public health professionals on both a local and global level international policy makers and relief workers **Leonardo** ,1999 **Human Biology** Daniel D. Chiras,2005 Intended for non majors this textbook describes the structure and functions of each human body system explores the body processes that regulate chemical levels in the blood and body temperature and overviews genetics human reproduction and evolution The fifth edition trims the overall length by 20% while adding short essays on past scientific **God and the New Biology** Arthur Robert Peacocke,1994 **The Bookseller** ,1917 **Academic Reading** Kathleen T. McWhorter,1994 Circulars Johns Hopkins University,1900 *Biological Abstracts* Jacob Richard Schramm,1929 **Normal Instructor and Primary Plans** ,1914 **Family Names and Family History** David Hey,2000 Family names are an essential part of everyone s personal history This work shows how when and where families first got their names The author demonstrates how settlement patterns and family groupings can be traced back towards their origins using local and national records **The Johns Hopkins university circulars [afterw.] circular** ,1883 **Documentary History of Education in Upper Canada** Ontario. Department of Education,1908 *Observations and Studies of Animal Populations Before 1860* Frank N. Egerton,1967 **Science and Technology Policy** Organisation for Economic Co-operation and Development,1992 Monitors developments in the science and technology policies of OECD countries and examines related issues for governments Includes a systematic presentation of country profiles describing recent policy initiatives Emphasizes particularly on quantitative analysis of the R D trends and the techno industrial performance of OECD countries A Catalog of Books Represented by Library of Congress Printed Cards Issued to July 31, 1942 ,1942 *Dictionary Catalog of the National Agricultural Library, 1862-1965* National Agricultural Library (U.S.),1967

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