

CHAPTER 1: BIOLOGY: EXPLORING LIFE

1.1 All forms of life share common properties

Common Properties

1. Order
2. Reproduction
3. Growth and Development
4. Energy Processing
5. Response to the Environment
6. Regulation
7. Evolutionary Adaptation

- Points:
 - **Living cells** are the basis of the complex organization of life.

1.2 In life's hierarchy of organization, new properties emerge at each level

1. **Biosphere**
2. **Ecosystem** - all of the organisms living in a particular area with physical components
3. **Community** - the entire array of organisms in an ecosystem
4. **Population** - all the individuals of a particular species living in an area
5. **Organism** - individual living thing
6. **Organ System** - consists of several organs that cooperate in a specific function
7. **Organ** - made up of several different tissues
8. **Cell** - the fundamental unit of life
9. **Organelle** - a membrane-enclosed structure that performs a specific function in a cell
10. **Molecule** - is a cluster of small chemical units called atoms

- Points:
 - **DNA (deoxyribonucleic acid)** - the molecule of *inheritance*
 - Each unique form of life is called a **species**.
 - The **emergent properties** of each level result from the specific arrangement and interaction of its parts.

1.3 Cells are the structural and functional units of life

Biology Exploring Life Concept Check Answers

**Gilbert D. Brum, Larry McKane, Gerald
Karp**



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Prentice Hall Exploring Life Science Anthea Maton, 1997

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Exploring Psychology in Modules David G. Myers, C. Nathan DeWall, 2021-10-06 The modules version of Myers DeWall's bestseller *Exploring Psychology* with its exceptionally current coverage set out in 49 brief segments.

Evolution of Life Cecie Starr, Ralph Taggart, 2000-07-19 This brief and specialized book was designed for a general study of biology and includes a brief history of evolutionary thought, microevolutionary processes, speciation and macroevolution. Excerpted from the author's best selling and respected book *BIOLOGY: THE UNITY AND DIVERSITY OF LIFE*, it also contains a customized table of contents and the back matter, the glossary, the index, etc. from the larger book.

Biology Fundamentals Gilbert D. Brum, Larry McKane, Gerald Karp, 1995-02-07 Promoting the process of science and the wonder of discovery, this text focuses more on concepts in biology and less on detailed information on biological procedures. Every chapter begins with Steps to Discovery vignettes which tell the story of how an investigation led to a scientific breakthrough, describing the people, ideas and thought processes involved. Using evolution as its theme, the book includes critical thinking questions which encourage readers to become more science literate by applying their knowledge to other areas of biology and science.

Forthcoming Books Rose Arny, 2002 *Teacher's Manual and Resource Guide for Exploring the Sciences* Herbert Drapkin, 1964

Exploring Intelligence, 1998 **Fungi Biology 2004** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Psychology Catalog 2005 Neil Thomson, 2004-09 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1961

Biology Michael R. Cummings, 1996 Life in the Sea Werner Grüter, 2001 The sea was the cradle of primordial life from which the roots of our own existence sprouted. Billions of years of evolutionary development brought forth an enchanting variety of forms, colors, lifestyles and patterns of behavior into which we only not long since began to gain direct insights. Nowhere else is it so conspicuously possible to look back at the same time on the manifestations of all life forms up to our own. In 13 chapters with 60 clearly understandable, vivid, light heartedly worded and separately enjoyable wanted posters, numerous astonishing phenomena of the marine fauna are described without burdening the reader unnecessarily with technicalities. More than 330 of the author's underwater color photos illustrate the text. Inquiry into the wider relationships whets our curiosity and satisfies it wherever science has already found the answer. A fascinating macrocosm takes shape around the unique entwinements of marine fauna, evolution and ecological

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational

quantities like θ , ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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