

Biological Science 1 Bio 101 Study Guide Chapters 1-3

Chapter 1

Key Concepts:

1.1 The Scientific Method

- Observation and experimentation are used to collect data and test hypotheses*
- Theories are developed to explain the observations*
- Theories are constantly being revised as new information is discovered*

1.2 The Cell

- Cells are the basic unit of life*
- All cells come from preexisting cells*
- Cells carry out the functions of life*

1.3 Genetics

- Genetics is the study of heredity*
- DNA is the molecule that contains the genetic information*
- Genes are the units of hereditary information*

Important Events:

- The discovery of the cell by Robert Hooke in 1665*
- The discovery of DNA by Friedrich Miescher in 1869*
- The discovery of the genetic code by Francis Crick, James Watson, and Maurice Wilkins in 1953*

Notable Figures:

- Robert Hooke- discovered cells in 1665*
- Friedrich Miescher- discovered DNA in 1869*
- Francis Crick, James Watson, Maurice Wilkins- discovered the genetic code in 1953*

Chapter 2

Biological Explorations Study Guide

Yi-Tong Ma



Biological Explorations Study Guide:

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Biology Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter Notes on the herpetofauna of Surinam IV M.S. Hoogmoed, 2012-12-06 Although biological exploration in Surinam started about 300 years ago a thorough account of the Surinam herpetofauna has not hitherto been published Several publications on the subject have been issued see below but none of them was comprehensive However there are several papers dealing with a part of the Surinam lizards The main reason for the absence of a complete review of the Surinam lizards and for that matter of the entire herpetofauna has been the scarcity of the material available in museum collection although some of the more common species reached museums in considerable numbers Until about 1900 the interior of Surinam was virtually terra incognita and most collecting took place in a restricted cultivated area along the coast and the farthest inland point reached was Berg en Dal on the Suriname River From 1900 exploration of the interior was actively encouraged by the Dutch Government and under the auspices of the

Koninklijk Nederlandsch Aard rijkskundig Genootschap several geographical expeditions explored the main river systems Although the main purpose of these expeditions was to map the visited areas usually the physician accompanying the expedition was entrusted also with the collecting of zoological and botanical specimens Interesting material from the interior started to reach the Dutch museums in ever increasing numbers after the late nineteen thirties when Dr D C GEIJSKES arrived in Surinam The Surinam Expedition 1948-49 in which Dr GEIJSKES and Mr P H New Guide for Occupational Exploration J. Michael Farr, Laurence Shatkin, 2006 The New Guide for Occupational Exploration gives you a feel for specific careers and whether they match your interests It begins by asking you to identify your interest level in 16 Interest Areas You then examine Work Groups of jobs within the cluster to identify types of careers that interest you most Finally specific jobs are listed within those Work Groups The process is simple and after you narrow down your options you are provided with loads of information for each Work Group to help you decide which jobs to explore in more detail Book jacket **Annual**

Report of the Board of Regents of the Smithsonian Institution Smithsonian Institution. Board of Regents, 1925

Concepts in Biology Eldon D. Enger, Enger, Frederick C. Ross, 1997 Concepts in Biology is a short student friendly text organized in a traditional manner It has very little botany and presents a human oriented approach to the animal unit Professors and students appreciate the low cost of this title and that it is written for students who are not biology majors

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,1966 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

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