

# Biological Science 1 Bio 101 Study Guide Chapters 1-3

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## 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

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*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 Aardrijkskundig 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

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## **Table of Contents Biological Explorations Study Guide**

1. Understanding the eBook Biological Explorations Study Guide
  - The Rise of Digital Reading Biological Explorations Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Biological Explorations Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biological Explorations Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Explorations Study Guide
  - Personalized Recommendations
  - Biological Explorations Study Guide User Reviews and Ratings
  - Biological Explorations Study Guide and Bestseller Lists
5. Accessing Biological Explorations Study Guide Free and Paid eBooks

- Biological Explorations Study Guide Public Domain eBooks
- Biological Explorations Study Guide eBook Subscription Services
- Biological Explorations Study Guide Budget-Friendly Options

6. Navigating Biological Explorations Study Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Biological Explorations Study Guide Compatibility with Devices
- Biological Explorations Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Biological Explorations Study Guide
- Highlighting and Note-Taking Biological Explorations Study Guide
- Interactive Elements Biological Explorations Study Guide

8. Staying Engaged with Biological Explorations Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Biological Explorations Study Guide

9. Balancing eBooks and Physical Books Biological Explorations Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Biological Explorations Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Biological Explorations Study Guide

- Setting Reading Goals Biological Explorations Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Biological Explorations Study Guide

- Fact-Checking eBook Content of Biological Explorations Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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