

# 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

# Chapter 1ap Bio Study Guide Answers

**Kailash Verma**



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**Popular Mechanics** ,1965-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Resources in Education ,1996 *Endless Forms* Daniel J. Howard,Stewart H. Berlocher,1998 Speciation is one of the great themes of evolutionary biology It is the process through which new species are born and diversity generated Yet for many years our understanding of the process consisted of little more than a perception that if populations are isolated geographically they will diverge genetically and may come to form new species This situation began to change in the 1960s as an increasing number of biologists challenged the exclusivity of allopatric speciation and began to probe more deeply into the actual process by which divergence occurs and reproductive isolation is acquired This focus on process led to many new insights but numerous questions remain and speciation is now one of the most dynamic areas of research in modern evolutionary biology This volume presents the newest research findings on speciation bringing readers up to day on species concepts modes of speciation and the nature of reproductive barriers It also discusses the forces that drive divergence of populations the genetic control of reproductive isolation and the role played by hybrid zones and hybridization in speciation **Code of Federal Regulations** ,2005 **Films and Other Materials for Projection** Library of Congress,1973 **Popular Science** ,1964 **Guide to the study and use of reference books** Alice Bertha Kroeger,1917 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09 *5 Steps to a 5 on the Advanced Placement Examinations* Mark Anestis,2001-12 A review and study guide for advanced placement study in biology Normal Instructor and Teachers World ,1909 **Guide to the Study and Use of Reference Books** ,1917 **Behavior Management** James Edwin Walker,1986 **Normal Instructor and Primary Plans** ,1914 **Subject Guide to Books in Print** ,2001 **Book Review Digest** ,1919 **The School Journal** ,1885 **Aeronautical Engineering Review** ,1957 *New-England Journal of Education* ,1913 Saturday Review ,1893 *The Saturday Review of Politics, Literature, Science and Art* ,1881

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