

Table of contents

- **1 Biology: Exploring Life**
- **I The Life of The Cell**
- **2 The Chemical Basis of Life**
- **3 The Molecules of Cells**
- **4 A Tour of the Cell**
- **5 The Working Cell**
- **6 How Cells Harvest Chemical Energy**
- **7 Photosynthesis: Using Light to Make Food**
- **II Cellular Reproduction and Genetics**
- **8 The Cellular Basis of Reproduction and Inheritance**
- **9 Patterns of Inheritance**
- **10 Molecular Biology of the Gene**
- **11 The Control of Gene Expression**
- **12 DNA Technology and the Human Genome**
- **III Concepts of Evolution**
- **13 How Populations Evolve**
- **14 The Origin of the Species**
- **15 Tracing Evolutionary History**
- **IV The Evolution of Biological Diversity**
- **16 The Origin and Evolution of Microbial Life: Prokaryotes and Protists**
- **17 Plants, Fungi, and the Colonization of Land**
- **18 The Evolution of Animal Diversity**
- **19 Human Evolution**
- **V Animals: Form and Function**
- **20 Unifying Concepts of Animal Structure and Function**
- **21 Nutrition and Digestion**
- **22 Gas Exchange**
- **23 Circulation**
- **24 The Body's Defenses**
- **25 Control of the Internal Environment**
- **26 Chemical Regulation**
- **27 Reproduction and Embryonic Development**
- **28 Nervous Systems**
- **29 The Senses**
- **30 How Animals Move**
- **VI Plants: Form and Function**
- **31 Plant Structure, Reproduction, & Development**
- **32 Plant Nutrition & Transport**
- **33 Control Systems in Plants**
- **VII Ecology**
- **34 The Biosphere: An Introduction to Earth's Diverse Environments**
- **35 Behavioral Ecology**
- **36 Population Dynamics**
- **37 Communities and Ecosystems**

- **38 Conservation Biology**