

Contents in Brief

1 Invitation to Biology

UNIT ONE HOW CELLS WORK

2 Molecules of Life

3 Cell Structure

4 Energy and Metabolism

5 Capturing and Releasing Energy

UNIT TWO GENETICS

6 DNA Structure and Function

7 Gene Expression and Control

8 How Cells Reproduce

9 Patterns of Inheritance

10 Biotechnology

UNIT THREE EVOLUTION AND DIVERSITY

11 Evidence of Evolution

12 Processes of Evolution

13 Early Life Forms and the Viruses

14 Plants and Fungi

15 Animal Evolution

UNIT FOUR ECOLOGY

16 Population Ecology

17 Communities and Ecosystems

18 The Biosphere and Human Effects