Unit Focus

Unit 1 gives you a general understanding of what modern biology is all about and reviews and explains the chemistry of living systems. You will explore scientific thinking, methods, equipment, and experimentation.

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- Manipulating Independent Variables
- Manipulating Plant Growth
- Biology in the News

HMDScience.com
Go online for the full complement of labs.

Moray eel and cleaner shrimp

©Doug Perrine/Nature Picture Library
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- Testing pH
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### UNIT 1 BIOZINE
**When Knowledge and Ethics Collide**
- **Technology**  Genetic Testing
- **Careers**  Geneticist

---

**ONLINE BIOLOGY**
HMDScience.com

**VIRTUAL Lab**
Chapter 2  Calorimetry

**Animated BIOLOGY**
Chapter 1  Cells Through Different Microscopes, Experimental Design
Chapter 2  Hydrogen Bonding, Energy and Chemical Reactions, Atoms and Bonding

**WebQuest**
Chapter 1  Bioethics
Chapter 2  Prions and Public Health

**INTERACTIVE Review**
Key Concepts, Vocabulary Games, Concept Maps, Animated Biology, Section Self-Checks

**INTERNET MAGAZINE**
Continually updated articles and the latest biology news

Additional labs and a variety of online activities are available in Student Resources at HMDScience.com.
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---

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### ONLINE BIOLOGY HMDScience.com

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- Chapter 11 Mechanisms of Evolution, Founder Effect, Evolutionary Arms Race
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### INTERACTIVE Review

Key Concepts, Vocabulary Games, Concept Maps, Animated Biology, Section Self-Checks

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- Density of Stomata
- Photosynthesis and Red Leaves
- Connecting Form to Function

**Go online for the full complement of labs.**

---

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### Unit Focus

Unit 8 begins by discussing the common characteristics of all animals. Animal diversity, including invertebrate and vertebrate diversity, is explored. Then the focus shifts to animal behavior.

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- Hatching Brine Shrimp
- Daphnia and Heart Rate
- Inside a Crayfish

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- Anatomy of a Bony Fish
- Vanishing Amphibian—an Indicator Species

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Technology  Bioremediation
Careers  Conservation Biologist
# Unit 9

**Unit Focus**

In Unit 9, you will learn about how your body systems work together to maintain a stable internal environment. Structures and functions of all the major body systems are addressed.

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- Examining Human Cells
- Hormones and Homeostasis

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Jane Goodall and chimpanzee

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