

## Chapter 1 The Human Body: An Orientation

Most of us are naturally curious about our bodies; we want to know what makes us tick. This curiosity is even seen in infants, who can keep themselves happy for a long time staring at their own hands or pulling their mother's nose. Older children wonder where food goes when they swallow it, and some believe that they will grow a watermelon in their belly if they swallow the seeds. They scream loudly when approached by medical personnel (fearing shots that sting), but they like to play doctor. Adults become upset when their hearts pound, when they have uncontrollable hot flashes, or when they cannot keep their weight down.

Anatomy and physiology, subdivisions of biology, explore many of these topics as they describe how our bodies are put together and how they work.

### An Overview of Anatomy and Physiology

- Define *anatomy* and *physiology*.
  - **Anatomy** – the study of the structures and shape of the body and body parts and their relationship to one another
  - **Physiology** – the study of how the body and its parts work or function
- Explain how anatomy and physiology are related.
  - Always related – structure determines function



### Levels of Structural Organization

- Name the levels of structural organization that make up the human body and explain how they are related.
  - Atoms – molecules – cells – tissues – organs – organ systems – organisms
  - Each level is more complex than the previous
- Name the organ systems of the body and briefly state the major functions of each system.
  - **Integumentary** – external covering of the body – skin – waterproofs the body, cushions, protects deeper tissues, excretes salts and urea in perspiration to regulate temperature
  - **Skeletal** – bones, cartilage, ligaments, joints – support, framework for skeletal muscles, protection, formation of blood cells, storehouse for minerals
  - **Muscular** – shorten or contract – movements inside and out of the body
  - **Nervous** – brain, spinal cord, nerves, sensory receptors – allow us to respond to stimuli inside and outside the body
  - **Endocrine** – hormones released from glands into the blood to target organs – control body's activities at a slower rate than nervous
  - **Cardiovascular** – heart and blood vessels – carries oxygen, nutrients, hormones, and other stuff, protect from foreign invaders
  - **Lymphatic** – lymphatic vessels, lymph nodes, spleen, tonsils – return fluid leaked from blood vessels to the blood vessels, cleanse the blood and house immune cells
  - **Respiratory** – keep body constantly supplied with oxygen and remove carbon dioxide – gas exchange
  - **Digestive** – break down food and deliver the products to the blood for dispersal to the body cells
  - **Urinary** – removes the nitrogen-containing wastes from the blood and flushes them from the body in urine – A.K.A. excretory system
  - **Reproductive** – produce offspring
- Classify by organ system all organs discussed.
  - See pages 5 – 6
- Identify the organs shown on a diagram or a dissectible torso.
  - See your book and assignments

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## **Table of Contents Holt Biology Introduction To Body Structure Quiz Answers**

1. Understanding the eBook Holt Biology Introduction To Body Structure Quiz Answers
  - The Rise of Digital Reading Holt Biology Introduction To Body Structure Quiz Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Biology Introduction To Body Structure Quiz Answers
  - 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 Holt Biology Introduction To Body Structure Quiz Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Biology Introduction To Body Structure Quiz Answers
  - Personalized Recommendations
  - Holt Biology Introduction To Body Structure Quiz Answers User Reviews and Ratings
  - Holt Biology Introduction To Body Structure Quiz Answers and Bestseller Lists
5. Accessing Holt Biology Introduction To Body Structure Quiz Answers Free and Paid eBooks

- Holt Biology Introduction To Body Structure Quiz Answers Public Domain eBooks
  - Holt Biology Introduction To Body Structure Quiz Answers eBook Subscription Services
  - Holt Biology Introduction To Body Structure Quiz Answers Budget-Friendly Options
6. Navigating Holt Biology Introduction To Body Structure Quiz Answers eBook Formats
    - ePub, PDF, MOBI, and More
    - Holt Biology Introduction To Body Structure Quiz Answers Compatibility with Devices
    - Holt Biology Introduction To Body Structure Quiz Answers Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Holt Biology Introduction To Body Structure Quiz Answers
    - Highlighting and Note-Taking Holt Biology Introduction To Body Structure Quiz Answers
    - Interactive Elements Holt Biology Introduction To Body Structure Quiz Answers
  8. Staying Engaged with Holt Biology Introduction To Body Structure Quiz Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Holt Biology Introduction To Body Structure Quiz Answers
  9. Balancing eBooks and Physical Books Holt Biology Introduction To Body Structure Quiz Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Holt Biology Introduction To Body Structure Quiz Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Holt Biology Introduction To Body Structure Quiz Answers
    - Setting Reading Goals Holt Biology Introduction To Body Structure Quiz Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Holt Biology Introduction To Body Structure Quiz Answers
    - Fact-Checking eBook Content of Holt Biology Introduction To Body Structure Quiz Answers
    - 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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