

ANATOMY AND PHYSIOLOGY

THE HUMAN BODY – AN ORIENTATION

Anatomy

- ⇒ Studies the structure of body parts and their relationships.

Physiology

- ⇒ Study of how the body and its parts work or function.

Pathophysiology

- ⇒ Extract invertase from Bayer's yeast

ANATOMY – LEVELS OF STUDY

Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- ⇒ Approached of study: **Regional and Systemic Anatomy**

Surface Anatomy

- ⇒ Study of internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- ⇒ Structures cannot be seen with the naked eye
- ⇒ Structures can only be viewed with a microscope
- ⇒ Subdivisions include **cytology** and **histology**

Developmental Anatomy

- ⇒ Traces structural changes that occur in the body throughout the life span.
- ⇒ **Embryology** – concerns developmental changes that occur before birth.

LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
 1. **Position**
 2. **Direction**
 3. **Regions**
 4. **Structures**

Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- *Note:* Four legged animals have different anatomical position than humans
 - Their *ventral* is on the *inferior side* and *dorsal* in the *superior side*.
 - In humans, ventral and anterior is the same and so is dorsal and posterior.



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1. Understanding the eBook Human Anatomy And Physiology Study Guide Reproduction
 - The Rise of Digital Reading Human Anatomy And Physiology Study Guide Reproduction
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Anatomy And Physiology Study Guide Reproduction
 - 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 Human Anatomy And Physiology Study Guide Reproduction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Anatomy And Physiology Study Guide Reproduction
 - Personalized Recommendations
 - Human Anatomy And Physiology Study Guide Reproduction User Reviews and Ratings
 - Human Anatomy And Physiology Study Guide Reproduction and Bestseller Lists

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 - Highlighting and Note-Taking Human Anatomy And Physiology Study Guide Reproduction
 - Interactive Elements Human Anatomy And Physiology Study Guide Reproduction
8. Staying Engaged with Human Anatomy And Physiology Study Guide Reproduction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Anatomy And Physiology Study Guide Reproduction
9. Balancing eBooks and Physical Books Human Anatomy And Physiology Study Guide Reproduction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Anatomy And Physiology Study Guide Reproduction
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Human Anatomy And Physiology Study Guide Reproduction
 - Setting Reading Goals Human Anatomy And Physiology Study Guide Reproduction
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Human Anatomy And Physiology Study Guide Reproduction
 - Fact-Checking eBook Content of Human Anatomy And Physiology Study Guide Reproduction
 - 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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