

# 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

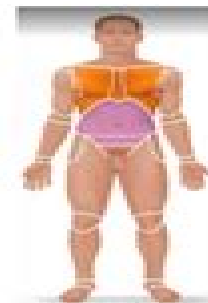
- ⇒ Traces structural changes that occur in the body throughout the life span.
- ⇒ **Embryology** – concerns developmental changes that occur before birth.

## 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.



# Human Physiology Study Guides

**Kathy Bonewit-West, Sue Hunt**



## **Human Physiology Study Guides:**

## Unveiling the Magic of Words: A Overview of "**Human Physiology Study Guides**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Human Physiology Study Guides**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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