

Anatomy & Physiology Exam 1 Study Guide

Chapter 1: Core Principles

- **Anatomy:** study of the structure of body parts and their relation to one another
- **Physiology:** function of body parts
 - form follows function

What are the seven characteristics of life? (Now 8)

- **Homeostasis:** maintain internal environment
- **Organization:** every organism is made up of at least 1 cell
- **Metabolism:** anabolism + catabolism
 - Living things obtain and use materials and energy
- **Growth + development**
 - Growth: increase in size
 - Development: cells divide and differentiate
- **Adaptation:** evolve over time
- **Respond to stimuli:** responding to environment
- **Reproduction:** sexual and asexual
- **Universal genetic code:** living things are based on DNA
 - Genetic code is basically the same for all organisms

Describe the major structural levels of organization of the human body

- **Chemical:** many organelles make up a cell
- **Cellular:** many cells make up a tissue
- **Tissue:** many tissues make up an organ
- **Organ:** many organs make up an organ system
- **Organ system:** many organ systems make up a human body
- **Organismal level**

Anatomy Study Guide Answer Key

Kim Cooper, Kelly Gosnell



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