

## HUMAN BIOLOGY FINAL EXAM STUDY GUIDE

### Bone structure

- Compact bone
  - is composed of osteons with a central canal containing blood vessels.
  - contains living bone cells called osteocytes in chambers called lacunae.

### More detail on bone

- Spongy bone
  - is made of plates with spaces filled with red bone marrow.

### Where are all the 3 types of cartilage found?

- Cartilage is flexible connective tissue categorized based on the type and arrangement of matrix fibers.
- Types
  - **Hyaline cartilage:** ends of long bones, nose, ends of ribs, larynx and trachea
  - **Fibrocartilage:** disks between vertebrae and in the knee (meniscus) ; stronger than hyaline cartilage
  - **Elastic cartilage:** ear flaps and epiglottis; more flexible than hyaline cartilage

### Bones of the face and hyoid bone

- Facial bones
  - Mandible
  - Maxillae
  - Zygomatic bones
  - Nasal bones
- Hyoid
  - Only bone that does not articulate with another bone

### What are the important cells in bone growth, repair, and remodeling?

- Osteocytes – mature bone cells that maintain bone structure (live in bone) derived from osteoblasts
- Osteoblasts – bone-forming cells (lay down bone)
- Osteoclasts – bone-absorbing cells (bone eaters)
- Chondrocytes – cartilage-forming cells

### Osteoporosis

- Osteoporosis is a condition where bones are weakened due to a decreased bone mass.
- Bone reabsorption exceeds absorption usually by age 40.
- Risk factors include: women, white or Asian, thin, family history, early menopause, smoking, diet low in calcium, excessive caffeine or alcohol consumption, and a sedentary lifestyle.

### The sarcomere

- Made of 2 protein myofilaments
  - A thick filament is composed of several hundred molecules of the protein myosin. Each myosin molecule is shaped like a golf club.
  - Primarily, a thin filament consists of 2 intertwining strands of the protein actin.
  - These filaments slide over one another during muscle contraction.

# Human Biology Final Study Guide

**M Mosston**



## **Human Biology Final Study Guide:**

## **Human Biology Final Study Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Human Biology Final Study Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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