

# CHAPTER 6 – SKELETAL SYSTEM

## COMPONENTS:

- Bones
- Joints & Associated Cartilages

## SKELETAL

- Derived from Greek word meaning “dried”
- Consist of dynamic, living tissues that are able to grow, detect pain stimuli, adapt to stress & undergo repair after injury.
- FRAMEWORK to support the soft tissues of the body.

## MAJOR FUNCTIONS:

### 1.) SUPPORT

- Major supporting tissues of the body
- **Cartilages** – provides firm yet flexible support (ex. Nose, external ear, thoracic cage & trachea)
- **Ligaments** – strong bands of fibrous connective tissue that attach to bones & hold them together.

### 2.) PROTECTION

- Protects the organ it surrounds (Ex. Skull encloses and protects the brain)

### 3.) MOVEMENT

- **Tendons** – skeletal muscles attach to bones
- **Smooth Cartilages** – covers the ends of bones within some joints ; allowing the bones to move freely
- **Ligaments** – allow some movements between bones but prevent excessive movements

### 4.) STORAGE

- **Calcium & Phosphorus** – taken into bones and stored
- **Adipose tissue** – stored w/in bone cavities (fats)
- **Lipids** – Released into the blood and used by other tissues as a source of energy

### 5.) BLOOD CELL PRODUCTION

- Cavities filled with red bone marrow
  - produces blood cells & platelets

## EXTRACELLULAR MATRIX

- **Collagen** (Tough rope-like proteins)
- **Proteoglycans** (Polysaccharides)
- **Tendons** (Collagen Fibers)
- **Ligaments** (Collagen Fibers)
- **Cartilage** (Collagen & Proteoglycans)
- **Hydroxyapatite** (Calcium Phosphate Crystals)

## GENERAL FEATURES OF BONE

1. **LONG BONES**
  - Longer than they are wide
2. **SHORT BONES**
  - Broad as they are long
3. **FLAT BONES**
  - Relatively thin, flattened shape
4. **IRREGULAR BONES**
  - Vertebrae & Facial Bones

## STRUCTURE OF A LONG BONE



- **DIAPHYSIS**
  - Central Shaft
- **EPIPHYSIS**
  - Two ends
- **ARTICULAR CARTILAGE**
  - covers the ends of the epiphyses where the bone articulates with other bones.
- **EPiphyseal Plate**
  - Growth plate, where the bone grows in length
  - Composed of cartilage, between each epiphysis and the diaphysis
- **EPiphyseal Line**
  - When the bone growth stops, this replaces the epiphyseal plate.
- **MEDULLARY CAVITY**
  - Large cavity in the diaphysis
- **MARROW**
  - A soft tissue that fills the spaces
  - **Yellow Marrow** – consist of mostly adipose tissues; **Red Marrow** – consist of blood-forming cell and is the only site of blood formation in adults.
- **PERIOSTEUM**
  - Covers most of the outer surface of the bones
  - Encloses the diaphysis
  - Contains blood vessels and nerves
- **ENDOSTEUM**
  - Thinner connective tissue membrane that lines the surface of the medullary cavity

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## **Table of Contents Quizlet Anatomy And Physiology Chapter 6**

1. Understanding the eBook Quizlet Anatomy And Physiology Chapter 6
  - The Rise of Digital Reading Quizlet Anatomy And Physiology Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Quizlet Anatomy And Physiology Chapter 6
  - 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 Quizlet Anatomy And Physiology Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Quizlet Anatomy And Physiology Chapter 6
  - Personalized Recommendations
  - Quizlet Anatomy And Physiology Chapter 6 User Reviews and Ratings
  - Quizlet Anatomy And Physiology Chapter 6 and Bestseller Lists

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