

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

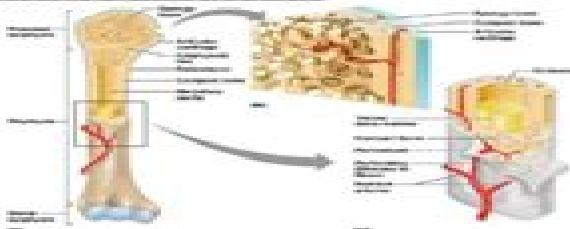
EXTRACELLULAR MATRIX

- **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.
- **EPHYSEAL PLATE**
 - Growth plate, where the bone grows in length
 - Composed of cartilage, between each epiphysis and the diaphysis
- **EPHYSEAL LINE**
 - When the bone growth stops, this replaces the epiphyseal plate.
- **MEDIULLARY CAVITY**
 - Large cavity in the diaphysis
- **MARROW**
 - A soft tissue that fills the spaces
 - **Yellow Marrow** – consist of mostly adipose tissue; **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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Blair Fraser,Bev Lott

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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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