



## MTY1102: HUMAN ANATOMY AND PHYSIOLOGY

### CHAPTER 6: SKELETAL SYSTEM

#### GENERAL GUIDELINES

#### LEGEND FOR HEADERS

#### MAIN TOPIC

#### SUBTOPIC

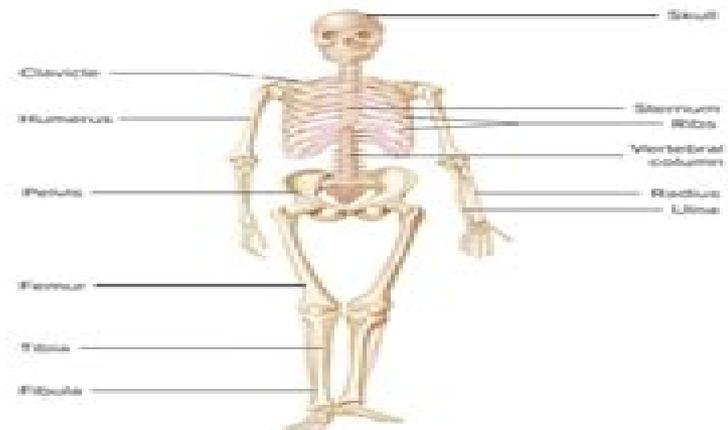
#### SUB-SUBTOPIC

#### FUNCTIONS OF THE SKELETAL SYSTEM

- **Support.** Rigid, strong bone is well suited for bearing weight and is the major supporting tissue of the body. Cartilage provides firm yet flexible support within certain structures, such as the nose, external ear, thoracic cage, and trachea. Ligaments are strong bands of fibrous connective tissue that attach to bones and hold them together.
- **Protection.** Bone is hard and protects the organs it surrounds. For example, the skull encloses and protects the brain, and the vertebrae surround the spinal cord. The rib cage protects the heart, lungs, and other organs of the thorax.
- **Movement.** Skeletal muscles attach to bones by tendons, which are strong bands of connective tissue. Contraction of the skeletal muscles moves the bones, producing body movements. Joints, where two or more bones come together, allow movement between bones. Smooth cartilage covers the ends of bones within some joints, allowing the bones to move freely. Ligaments allow

some movement between bones but prevent excessive movement.

- **Storage.** Some minerals in the blood—principally, calcium and phosphorus—are stored in bone. Should blood levels of these minerals decrease, the minerals are released from bone into the blood. Adipose tissue is also stored within bone cavities. If needed, the lipids are released into the blood and used by other tissues as a source of energy.
- **Blood cell production.** Many bones contain cavities filled with red bone marrow, which produces blood cells and platelets.



#### EXTRACELLULAR MATRIX

##### Collagen

- is a tough, ropelike protein

# Chapter 6 Skeletal System Answers

**S Ben Porath**



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