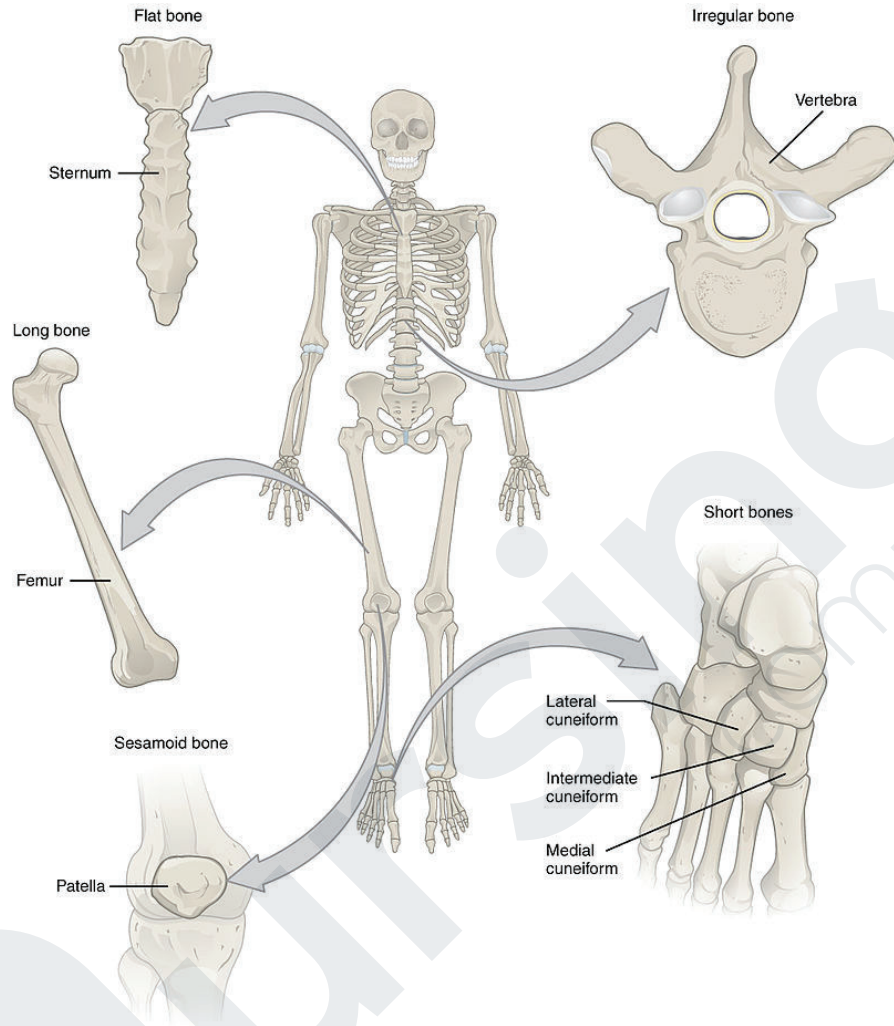


SKELETAL ANATOMY



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Bone Classifications

Long

- Limbs

Short

- Found in wrists & ankles

Flat

- Skull bones
 - Lacrimal, nasal, frontal, parietal, & occipital
- Scapula
- Sternum
- Ribs

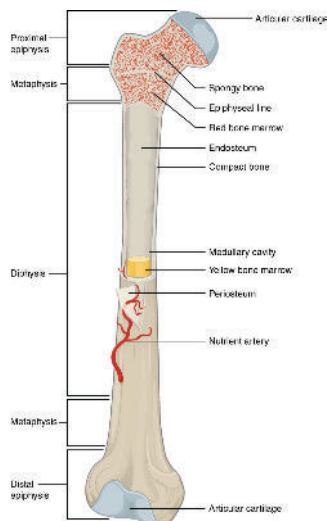
Irregular

- Skull bones
 - Ethmoid, sphenoid, maxilla, mandible, & temporal
- Pelvic bone
- Vertebrae
- Sacrum & coccyx

Sesamoid

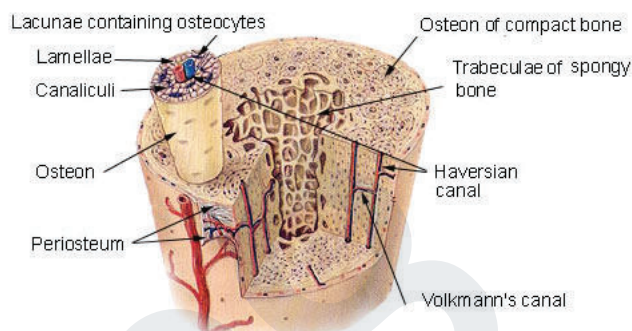
- Encased by tendons
 - Patella

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Compact Bone & Spongy (Cancellous Bone)



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Long Bone Anatomy

Diaphysis

- Shaft
- Contains medullary cavity
- Made of trabecular bone

Epiphysis

- Proximal & distal ends of long bone
- Made mostly of spongy bone
- Articular cartilage covers outside

Metaphysis

- Contains growth plate
- Space between epiphysis & diaphysis

Periosteum

- Outer covering of bone
- Made of white fibrous connective tissue
- Site of tendon connection

Cross Section of Bone

Medullary cavity

- Hollow cavity in diaphysis
- Contains red & yellow bone marrow

Trabecular bone

- Spongy bone
- Found near edge

Compact bone

- Outermost bone layer
- Provides hard covering

Compact Bone Anatomy

Osteons

- Cylindrical structures containing osteocytes
- Osteocytes formed in concentric circles, surrounding Haversian canal

Lamellae

- Interstitial lamellae - space between osteons
- Circumferential lamellae - outer & inner edges of compact bone

Haversian Canals

- Hollow cavities containing blood vessels & nerves
- Run vertically through bone

Volkmann's Canals

- Supply blood to Haversian canals
- Run horizontally and interconnect Haversian canals