**Items to Identify: Cartilage and Bone**

**Slides to Identify**

* Slide 121: Bone, rabbit femur
  + Compact bone, concentric lamellae, Haversion system, Haversion canal, osteocytes
  + Lacunae, canaliculi, Volkmann’s canal
* Slide 133: Trachea, monkey
  + Hyaline cartilage
* Slide 194: Fetal elbow
  + Hyaline cartilage, synovial membrane
  + No perichondrium, dense regular connective tissue
  + Bone matrix
  + Lacunae, canaliculi, Volkmann’s canal
* Slide 195: Fetal jaw
  + Lacunae, canaliculi, Volkmann’s canal
* Slide 220: Fetal finger
  + Cancellous (spongy) bone
  + Osteoblasts, osteoid, lacunae, osteocytes, osteoclasts
  + Growth plate
* Slide 420: Rib
  + Bone marrow, eosinophils, red blood cells
* Slide 421: Tibia, Fetal
  + Perichondrium, chondrocytes
  + Cancellous (spongy) bone
  + Osteoblasts, osteoid, lacunae, osteocytes, osteoclasts
  + Endochondral ossification- proliferation, hypertrophy, calcification, bone formation
  + Primary spongiosa, secondary spongiosa
* Slide 425: Bone (unstained)
  + Compact bone, concentric lamellae, Haversion system, Haversion canal, osteocytes
  + Lacunae, canaliculi, Volkmann’s canal
* Slide 19762: Outer ear
  + Elastic cartilage
* Slide 32583: Cartilage and bone (toluidine blue)
  + Osteoblasts, osteoclasts, and osteocytes
* Slide HISTO017: Vertebra
  + Basophilic staining of cartilage

**EMs to Identify**

* EM 11: Perichondrium
  + Chondrocyte, fibroblast, perichondrium, appositional growth
* EM 12: Osteoblast
  + Prominent rough ER, large Golgi complex and secretory vesicles
* EM 13: Chondrocytes
  + Interstitial growth , chondrocytes