**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