

Characteristics of Bone

- . **Teleost Fish**
 - A. Layered or laminated appearance
 - B. Often light brown in color translucent
 - C. Cancellous bone is usually not well developed
 - D. Central portion is denser than peripheral bone
- . **Bird**
 - A. Thin dense, shiny cortical layer
 - B. Little cancellous bone in medullary cavity
 - C. Cancellous bone that is present forms struts like those in an airplane
 - D. Articular surfaces of bones are usually not as well defined as in terrestrial mammals
- . **Sea Mammal**
 - A. Has a low density in comparison to land mammal bone
 - B. Surface is usually rough with tiny pores
 - C. Cortical layer is thin relative to cancellous layer
 - D. Cancellous bone is homogenous instead of oriented
 - E. Medullary cavity is often filled with fine cancellous bone
 - F. Broken pieces of cortical bone often have a chalky appearance
- . **Land Mammal**
 - A. Has a high density in comparison to sea mammal bone
 - B. Surface is usually shiny
 - C. Cortical layer is usually thick relative to the cancellous layer
 - D. Medullary cavity usually has little cortical bone except at the ends
- . **Antler**
 - A. No medullary cavity
 - B. "Cortical" layer is porous
 - C. "Cancellous" layer if very fine
 - D. Transition between cancellous and cortical layer is usually ill defined
 - E. Surface of bone often has nodular texture

