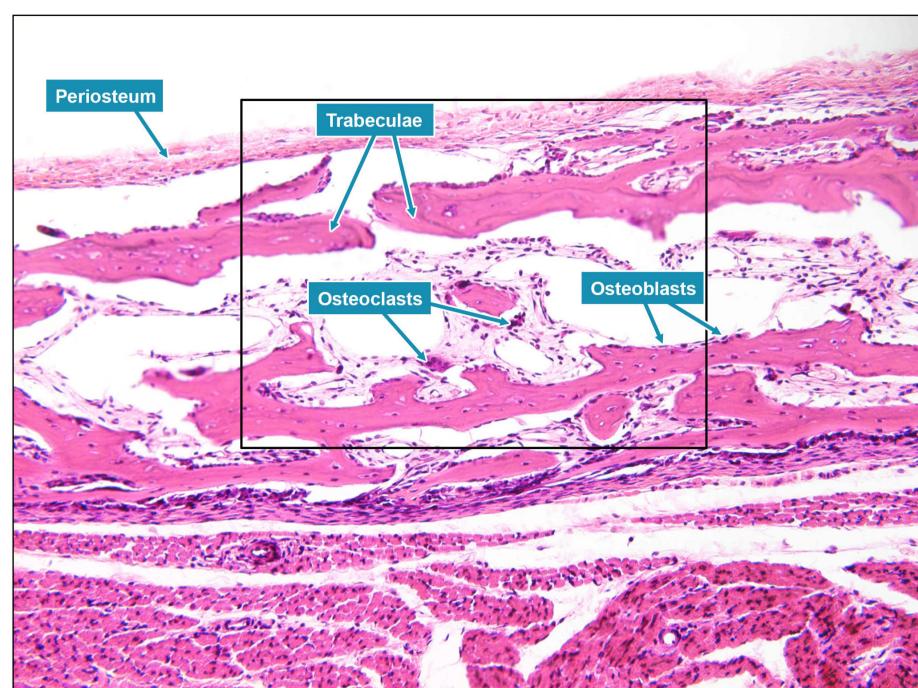
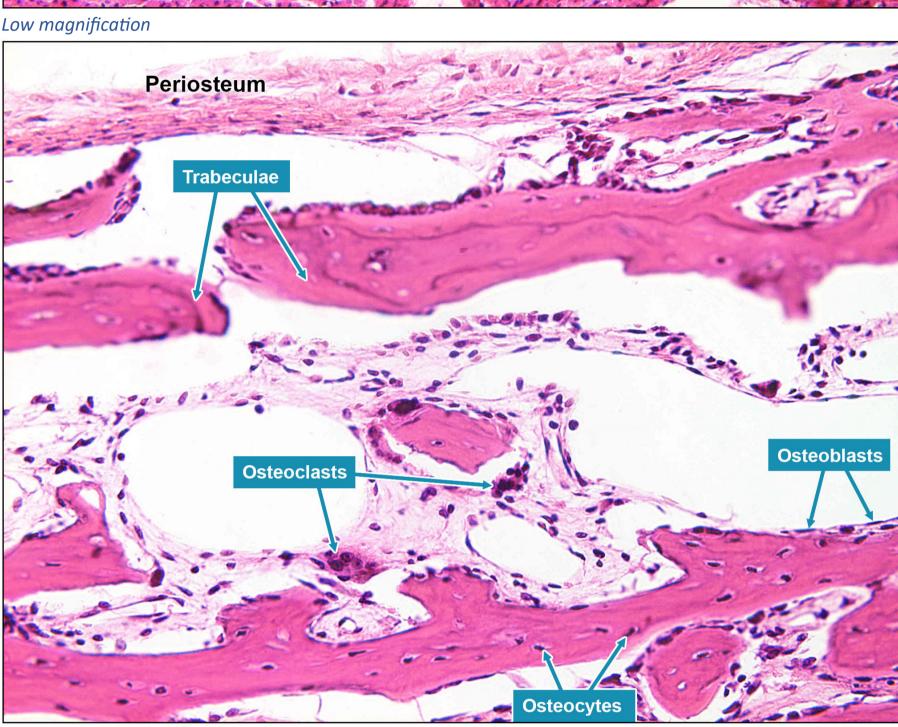
SKULL KITTEN H&E

Musculoskeletal System

The outermost layer of the bone is the **Periosteum**. The only bones not covered by periosteum are sesamoid bones.





High magnification

Type I collagen called perforating (Sharpey) Fibres.

2. Periosteum is made of dense connective

1. Periosteum is bound to bone by bundle of

- tissue having: (i) fibrous layer and (ii) a cellular layer.

 3. Trabeculae around the marrow cavities
- 4. Outer layer of the periosteum is made of thick collagen Fibres with abundant

are covered by endosteum.

- blood supply and is well innervated.

 5. Inner layer of the periosteum is called the cambium and contains osteoprogenitor cells
- and osteoblasts, and osteoclasts.6. Osteoblasts are necessary to synthesize bone matrix. Coordinate skeleton
- mineralization.

 7. Osteoblasts secrete osteoid and as it undergoes calcification, hardens, and traps the osteoblasts, they differentiate further
- as osteocytes.

 8. Osteoclasts are multinucleated giant cells involved in the reabsorption and remodelling

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of bone tissue.