Skeleton and Articulations

Chapter 6

1. Functions of Skeletal system (page 104)
    - A. Support
    - B. Protection
    - C. Movement
    - D. Hemopoiesis
    - E. Mineral Storage

2. Bone Classificaiton (Pages 104 - 105)
    - A. Long
    - B. Short
    - C. Flat
    - D. Irregular

3. Bone Structure (Pages 105 - 106)
    - A. Diaphysis
    - B. Epiphysis
    - C. Articular Cartilage
    - D. Medullary Cavity
        - i. Yellow Marrow

4. Bone Tissue Types (Pages 106 - 118)

    A. Spongy Bone (see also, Page 105)

        i. Function: Hemopoiesis

    B. Compact Bone (see also, Page 105)

        i. Function: Energy Storage (Adipose Connective Tissue)

5. Compact Bone and the Osteon System (Page 106 - 107; note figure 6.3)

6. Spongy Bone and Trabeculae (Page 106 - 107; note figure 6.3)

        i. Red Marrow

            a. Hemopoiesis

7. Bone Cell Types

    A. Osteoblasts (Page 107)

        i. Matrix

    B. Osteocytes

    C. Osteoclasts

        i. Resorption

8. Endochondral Ossification (Page 108) (Note, figure 6.5)

9. Axial Skeleton (Page 109) (Know figure 6.6, page 110) ** start early

A. Cranium

B. Facial Bones

i. Mandible

a. Temporomandibular Joint

D. Vertebral Column (Pages 116 - 118)

i. Regions

a. Cervical Vertebrae

b. Thoracic vertebrae

c. Lumbar Vertebrae

d. Sacral Vertebrae

e. Coccygeal Vertebrae

ii. Curves

a. Convex Curves

b. Concave Curves

E. Thorax (Pages 119 - 120)

i. Sternum

ii. Costal Cartilages

10. Appendicular Skeleton *Know*

A. Upper Extremity (Pages 121 - 122)

i. Pectoral Girdle

a. Clavicle

b. Scapula

ii. Humerus

iii. Radius

iv. Ulna

v. Carpals

vi. Metacarpals

vii. Phalanges

B. Lower Extremity (Pages 122 - 125)

i. Pelvic Girdle (Bones)

a. Pubic Symphysis

ii. Femur

iii. Tibia

vi. Fibula

v. Tarsals

vi. Metatarsals

vii. Phalanges

11. Articulations (Joints) (Page 125 - 127; figure 6.24 and Page 126)

A. Articulation Defined

B. Classification

i. Fibrous Joint

ii. Cartilaginous Joint

iii. Synovial Joint (Page 123; figure 6-6 and Page 124)

a. Synovial Capsule

b. Synovial Fluid

c. Articular Cartilage

d. Bursa

12. Joint Movements (see Page 130)

    A. Flexion

    B. Extension

    C. Dorsiflexion

    D. Plantar Flexion

    E. Abduction

    F. Adduction

    G. Rotation

    H. Circumduction

    I. Eversion

    J. Inversion

    K. Pronation

    L. Supination

    M. Protraction

    N. Retraction

    O. Elevation

    P. Depression

Do these on your own:

13. Joint Disorders (Pages 128 - 132)

    A. Arthritis

        i. Osteoarthritis

        ii. Rheumatoid Arthritis

    B. Tendonitis

    C. Gout