Lab #2 (week of 1/23): Skeletal System Structure and Function

1. **Pre-lab reading**:
   a. Lab handout
   b. Text sections 30.3-30.6
2. **Quiz #1** will cover scientific inquiry, experimental design, graph analysis etc.
3. **No homework due**
4. **First article review due**
5. **Homework #1 assigned**: Each student must bring in 2 print resources (web pages or other materials) for the joint/muscle presentation assigned in class this week. Each article is worth 5 points, graded on presence/absence.

Next lab (week of 1/30) = Lab #3: Joints and Muscles

1. **Pre-lab reading**
   a. Lab handout
   b. Text sections 30.3, 30.7
2. **Quiz #2** will cover the skeletal system, including identifying bones from charts, articulated skeletons, disarticulated skeletons
3. **Homework #1 due**

List of Terms for Lab #2 (Know definition, structure and/or function as appropriate)

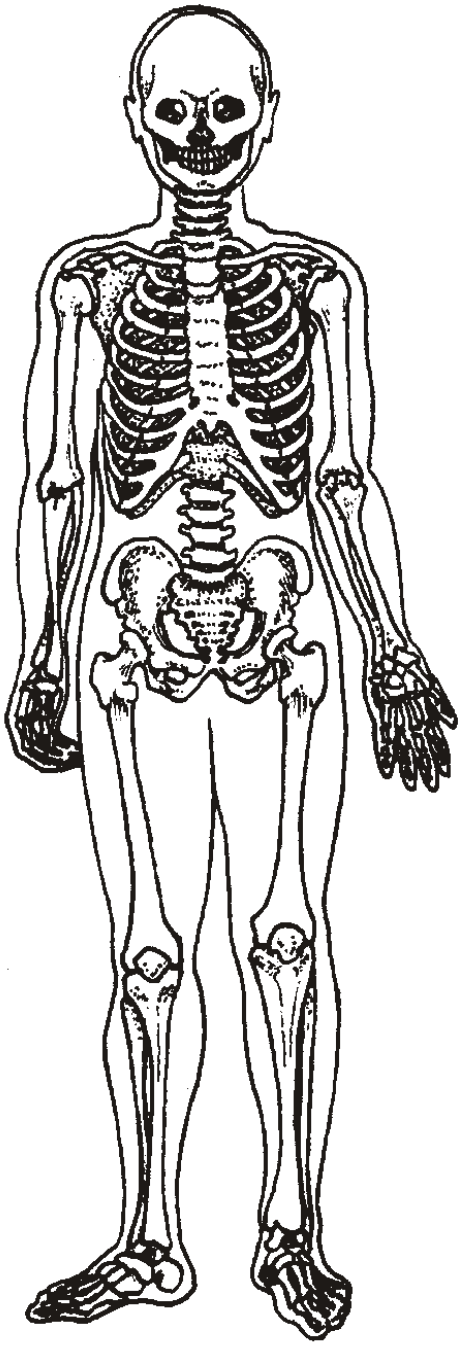
Fibrous connective tissue
Cartilage
Bone tissue
Red bone marrow
Yellow bone marrow
Skull
Cranium
Mandible
Shoulder girdle
Clavicle
Scapula
Humerus
Radius
Ulna
Carpals
Metacarpals
Phalanges
Rib cage
Rib
Sternum
Pelvic girdle
Pelvis
Femur
Tibia
Fibula
Tarsals
Metatarsals
Vertebral column
Vertebra
Vertebral body
Vertebral centrum
Spinous process
Transverse process
Intervertebral disk
Sacrum
Coccyx
Kyphosis
Lordosis
Scoliosis
Growth plate
Osteoporosis

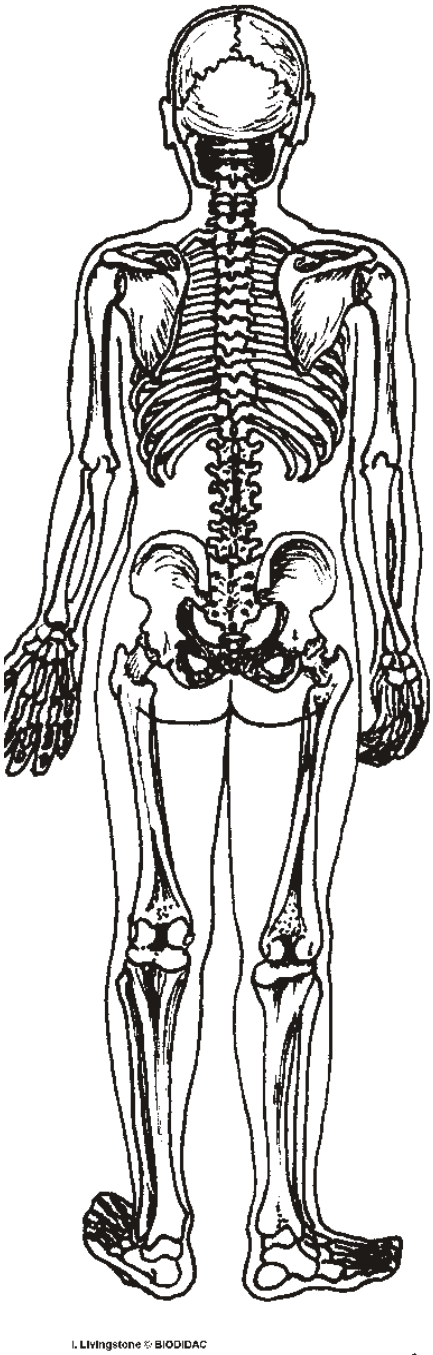
Questions to Answer

1. How are the structures of the arms and legs similar? How are they different? Answers should include a description of the basic number and position of long bones.

2. How are the structures of the wrist/hand/fingers and ankle/foot/toes similar? How are they different? Answers should include a description of the basic number and position of the bones involved.

3. Examine the vertebral column, sacrum, and pelvis. Why do you think the sacrum is considered part of the backbone instead of part of the pelvic girdle?





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Vertebral column, individual vertebra