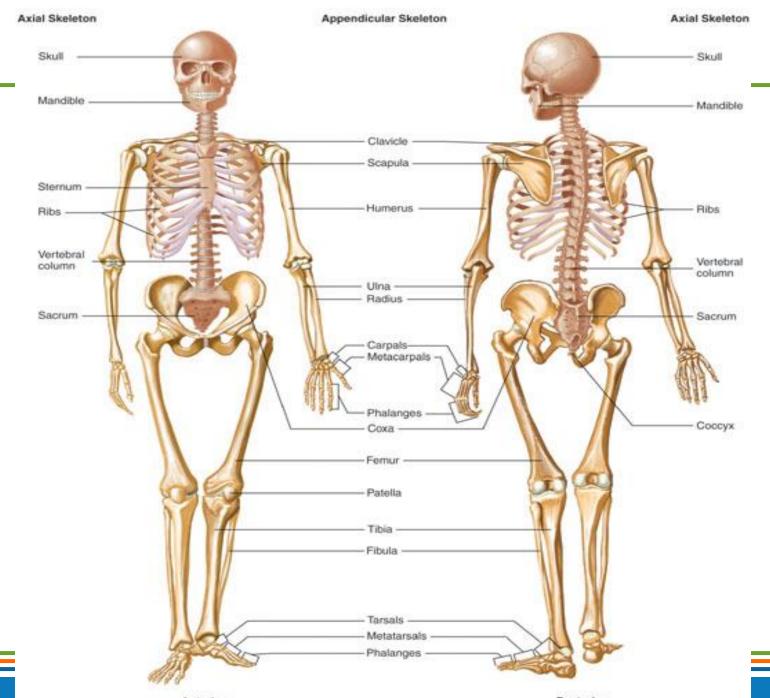
LESSON 11

Appendicular Skeleton (1)

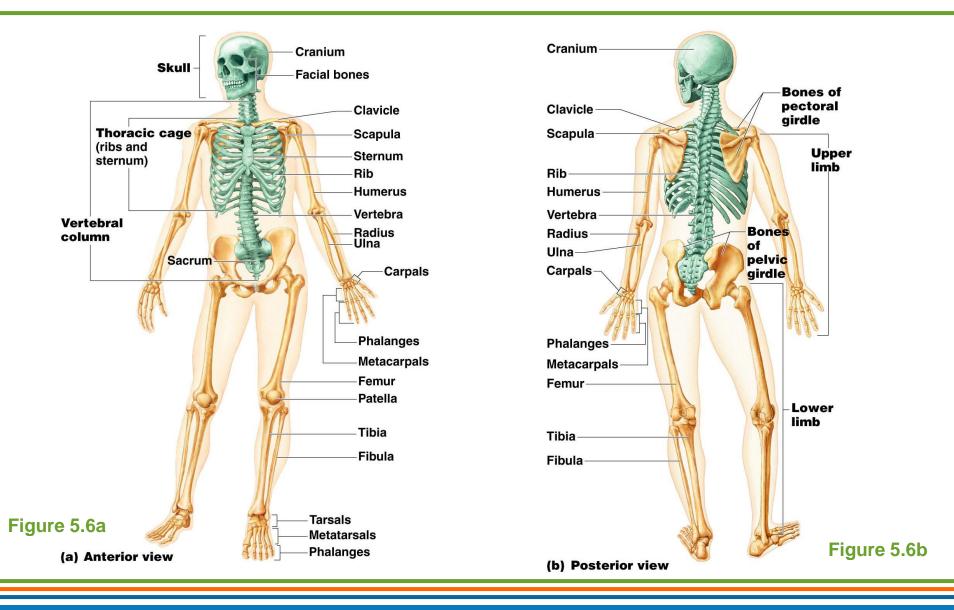


Anterior Posterior

ANSWERS: Bones of the Axial & Appendicular Skeleton

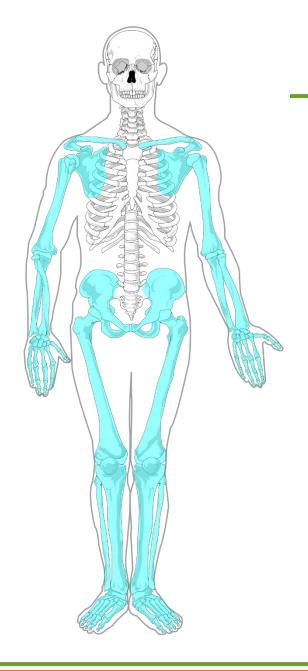
1. cranium	11. radius	21. metatarsals
2. mandible	12. carpals	22. phalanges
3. sternum	13. metacarpals	23. cranium
4. ribs	14. phalanges	24. mandible
5. vertebra	15. coxa	25. skull
6. sacrum	16. femur	26. ribs
7. clavicle	17. patella	27. vertebra
8. scapula	18. tibia	28. sacrum
9. humerus	19. fibula	29. coccyx
10. ulna	20. tarsals	30. talus
		31.calcaneus

The Appendicular Skeleton (not blue)



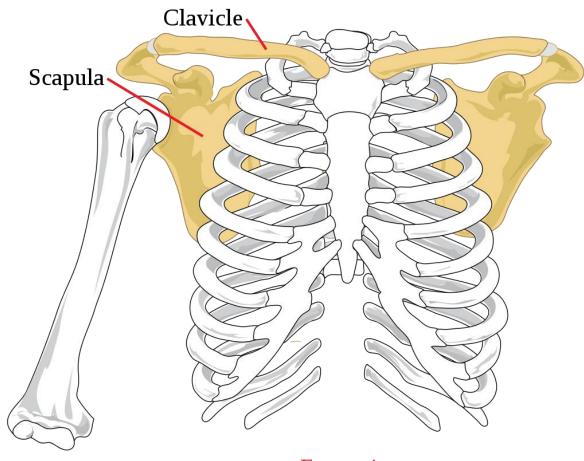
The Appendicular Skeleton

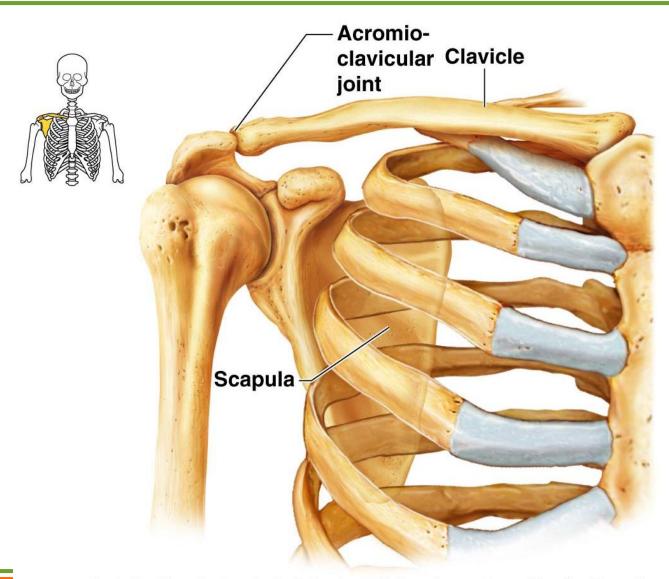
- Composed of 126 bones
 - Limbs (appendages)
 - Pectoral girdle
 - Pelvic girdle



The Pectoral (Shoulder) Girdle

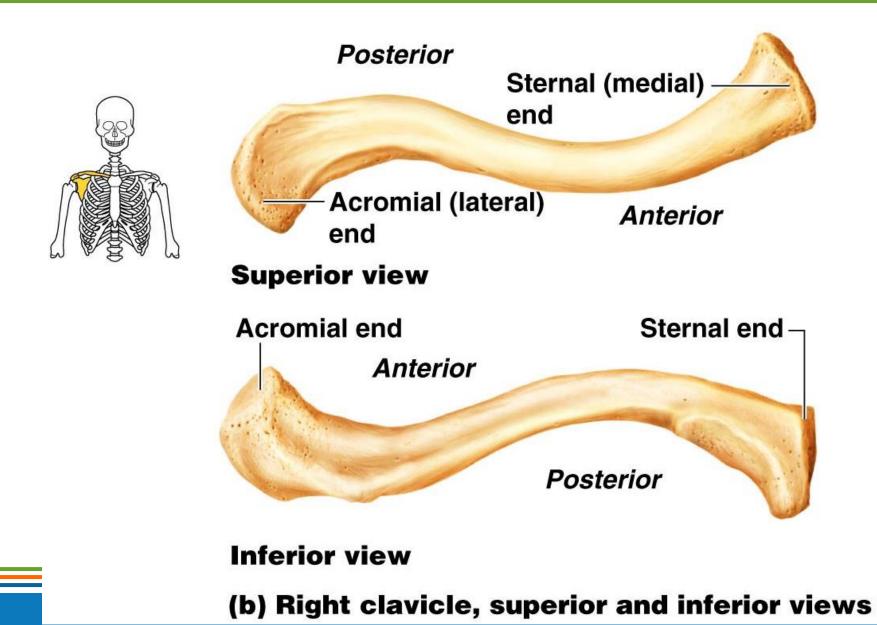
- Composed of two bones
 - Clavicle (collar bone)
 - Scapula (shoulder blade)
- These bones allow the upper limb to have exceptionally free movement





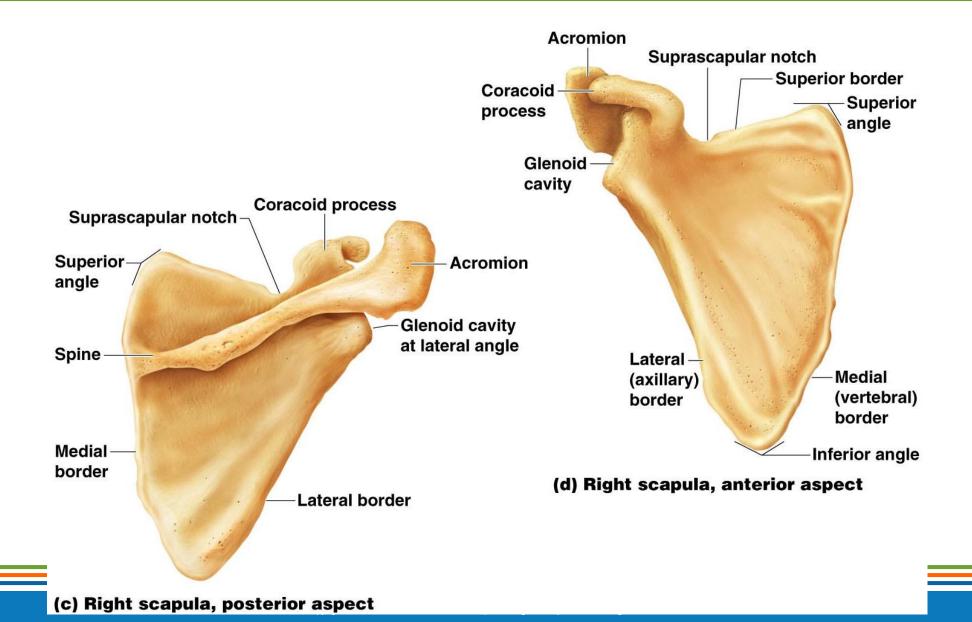
(a) Articulated right shoulder (pectoral) girdle showing the relationship to bones of the thorax and sternum

Bones of the Shoulder Girdle (con't)



Bones of the Shoulder Girdle (con't)

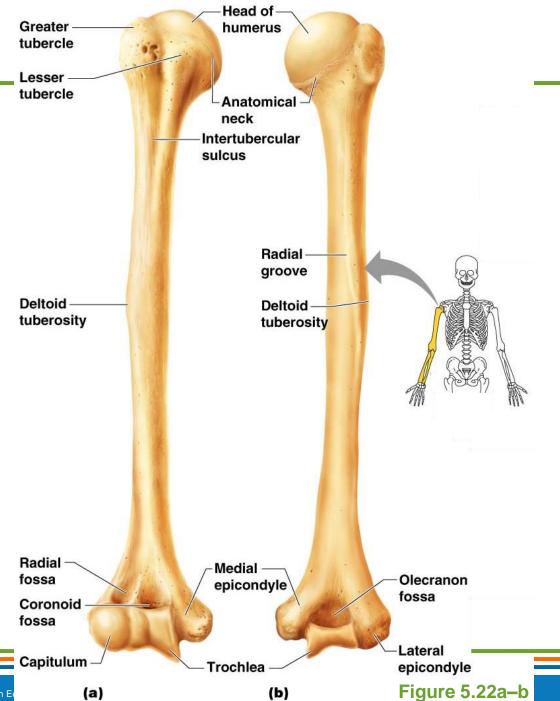
Figure 5.21c-d



Bones of the Upper Limbs

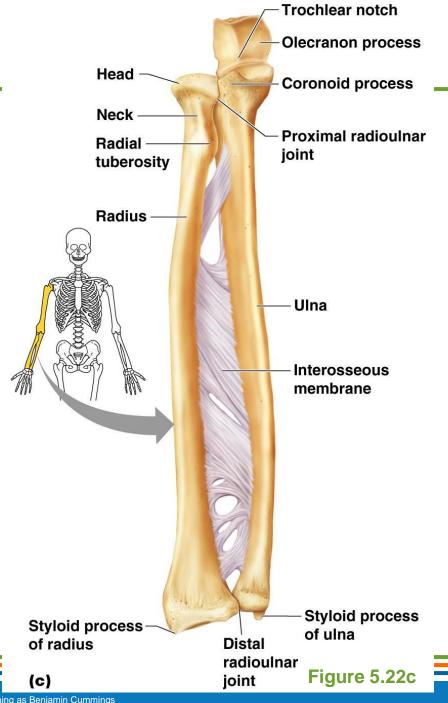
Arm & Leg Bones Song

- Humerus
 - Forms the arm
 - Single bone



Bones of the Upper Limbs

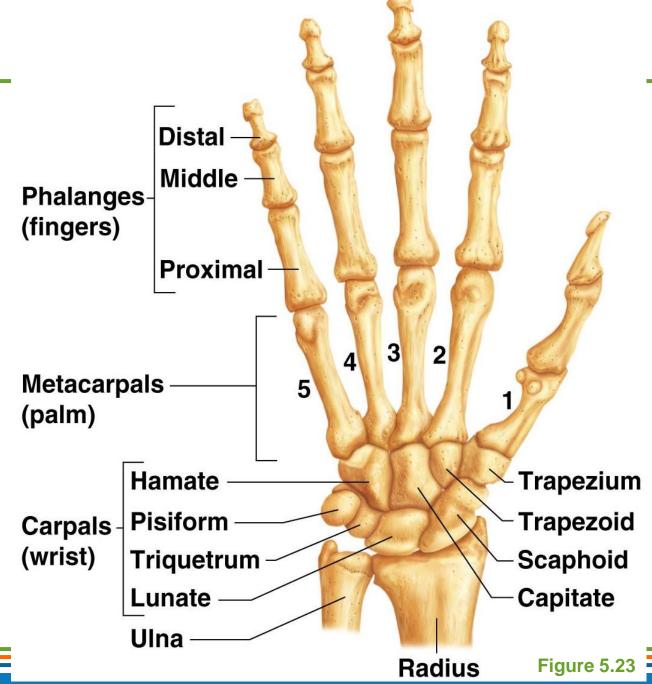
- The forearm has two bones
 - Ulna
 - Medial bone in anatomical position
 - Radius
 - Lateral bone in anatomical position



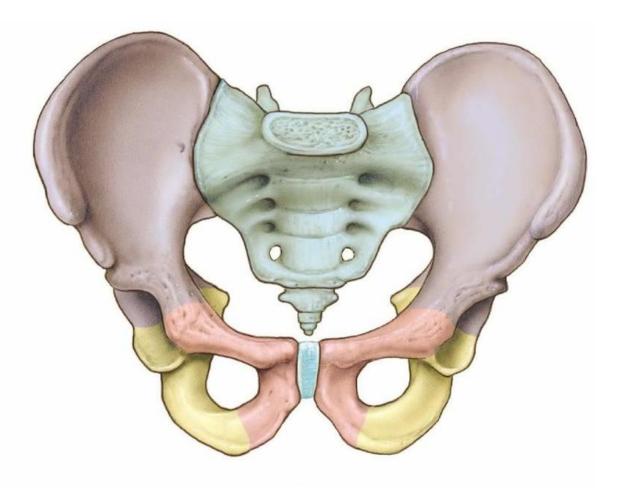
Bones of the Upper Limbs

Bones of Hands & Feet Song

- The hand
 - Carpals: wrist
 - Metacarpals: palm
 - Phalanges: fingers



- Formed by two coxal (ossa coxae) bones
- Composed of three pairs of fused bones
 - 1) Ilium
 - 2) Ischium
 - 3) Pubis

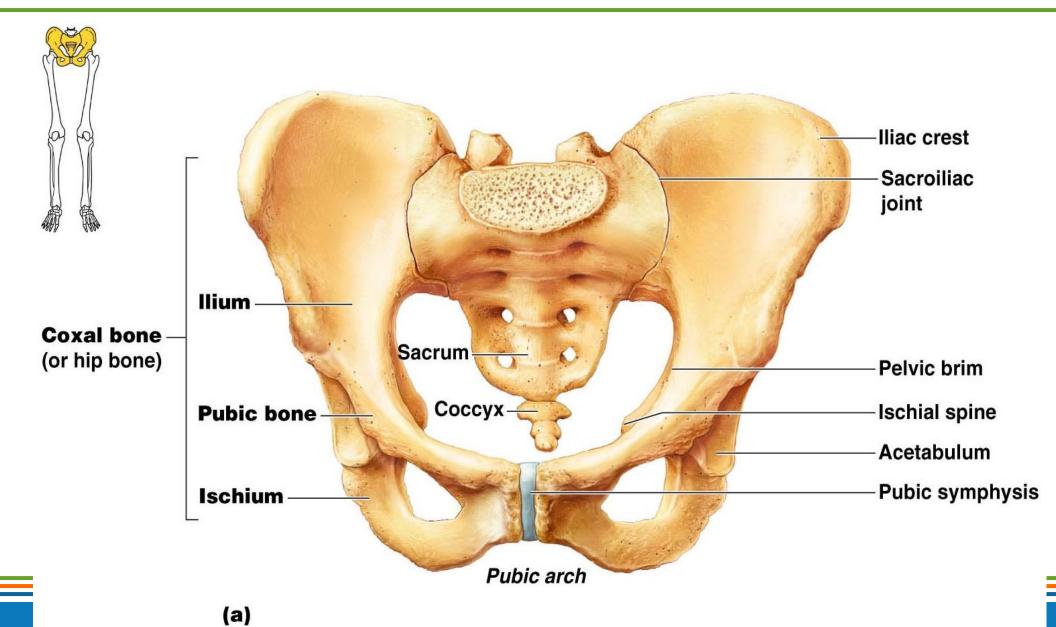


(a)

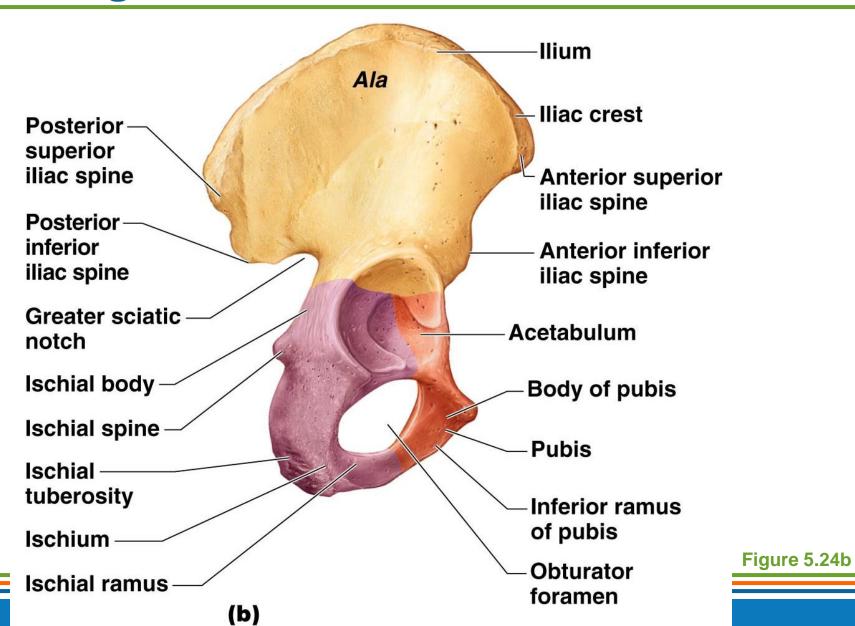
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Bones of the Pelvic Girdle

- Total weight of the upper body rests on the pelvis
- It protects several organs
 - Reproductive organs
 - Urinary bladder
 - Part of the large intestine



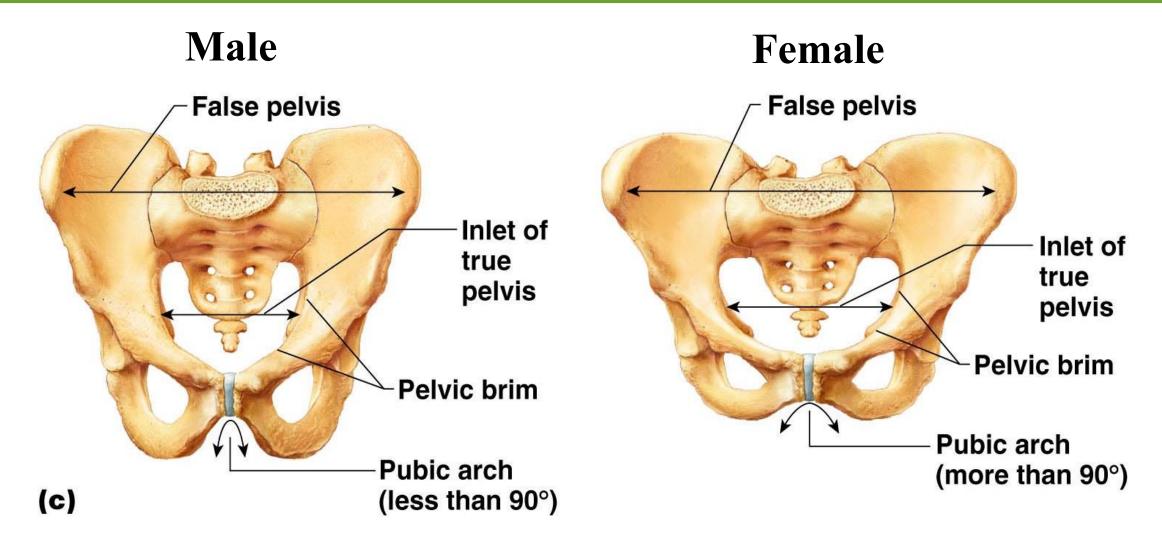
The Pelvis: Right Coxal Bone



Gender Differences of the Pelvis

- 1. The female inlet is larger and more circular
- 2. The female pelvis is shallower, and the bones are lighter and thinner
- 3. The female ilia flare more laterally
- 4. The female sacrum is shorter and less curved
- 5. The female ischial spines are shorter and farther apart; thus the outlet is larger
- 6. The female pubic arch is more rounded because the angle of the pubic arch is greater

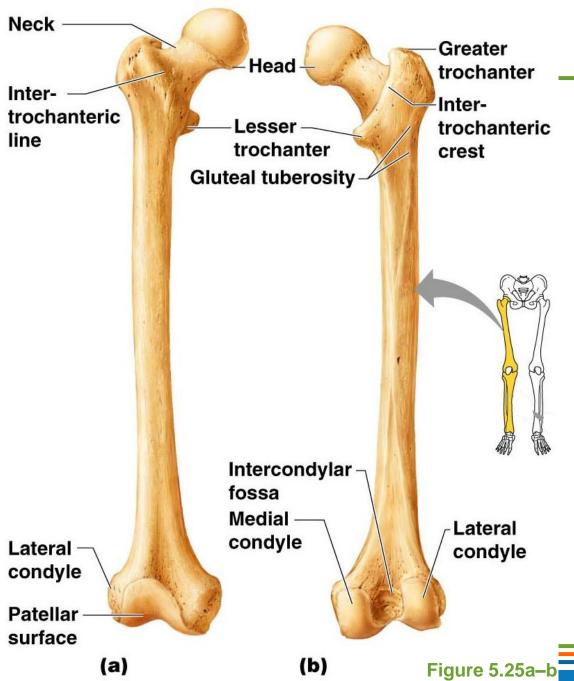
Gender Differences of the Pelvis



Bones of the Lower Limbs

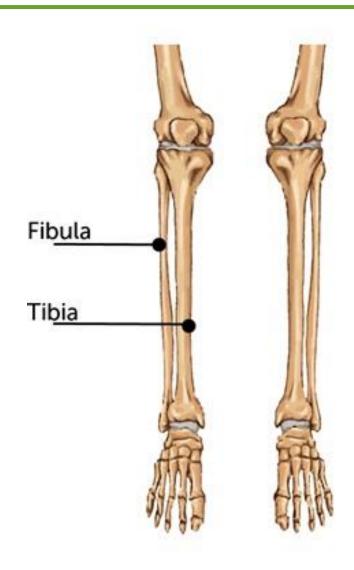
Arm & Leg Bones Song

- The thigh has one bone
 - Femur
 - heaviest, strongest bone in the body



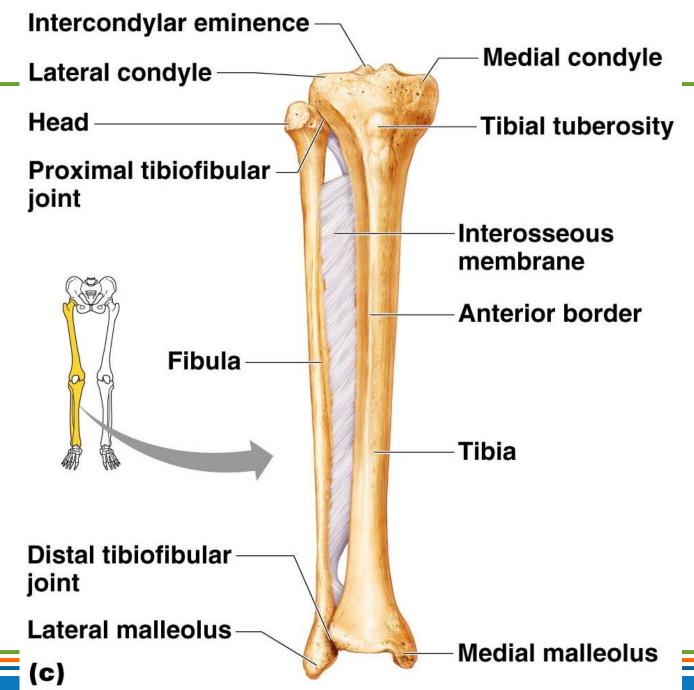
Bones of the Lower Limbs

- The lower leg has two bones
 - Tibia
 - Shin bone
 - Larger and medially oriented
 - Fibula
 - Thin and sticklike



Bones of the Lower Limbs

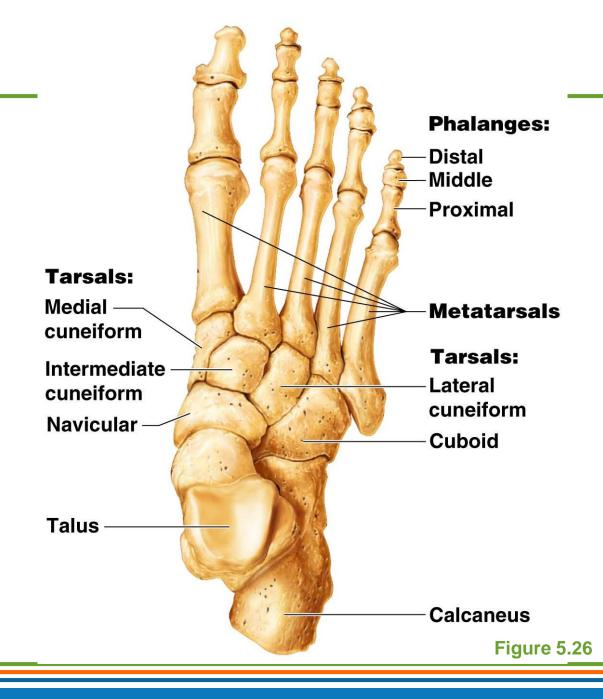
Figure 5.25c



Bones of the Lower Limbs

Bones of Hands & Feet Song

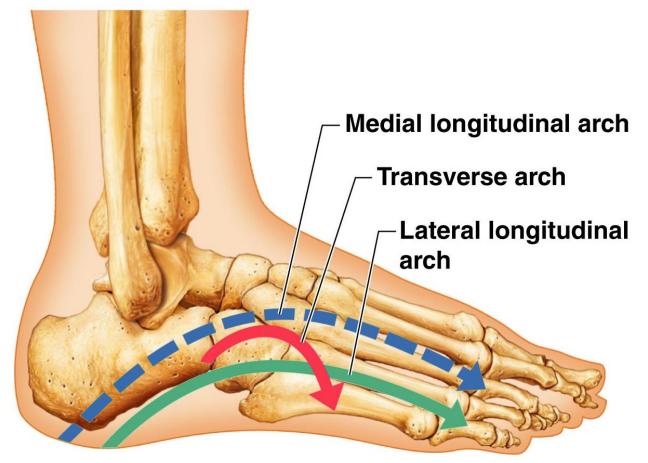
- The foot
 - Tarsals
 - Two largest tarsals
 - Calcaneus (heel bone)
 - Talus
 - Metatarsals—sole
 - Phalanges—toes

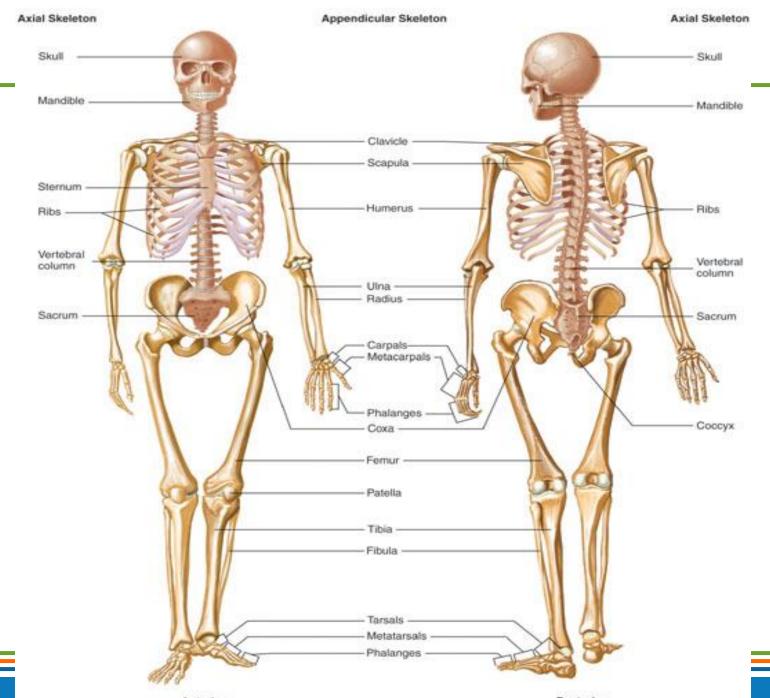


Arches of the Foot

Bones of the foot are arranged to form three strong arches

- Two longitudinal
- One transverse





Anterior Posterior

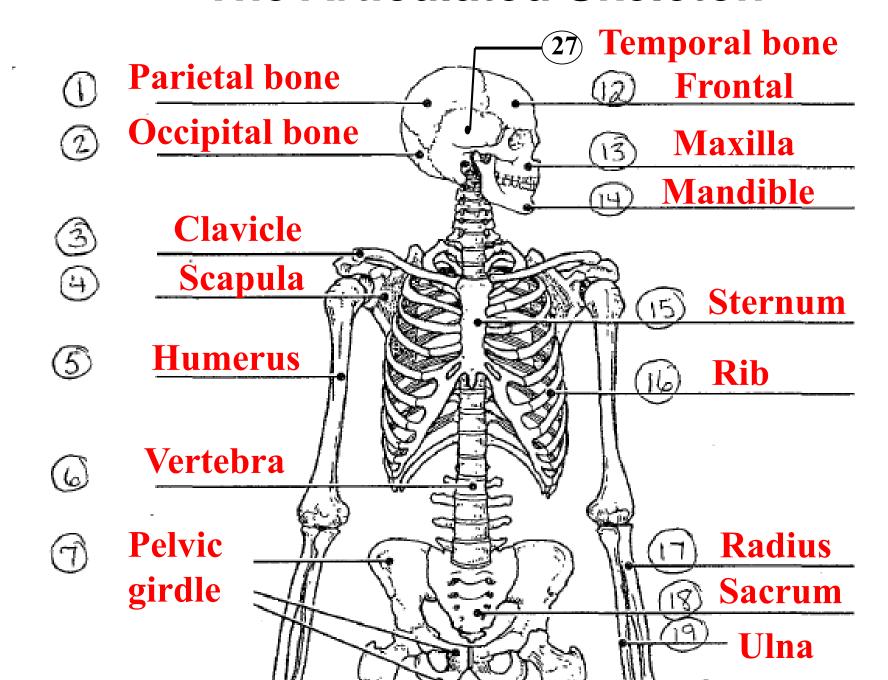
ANSWERS: Bones of the Axial & Appendicular Skeleton

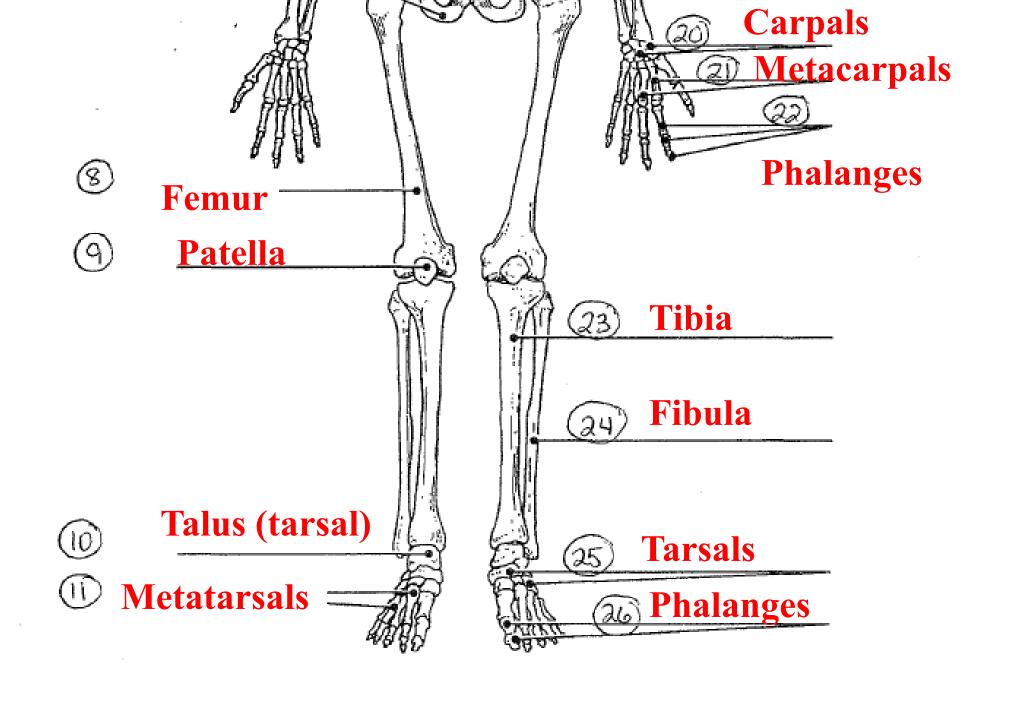
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		31.calcaneus

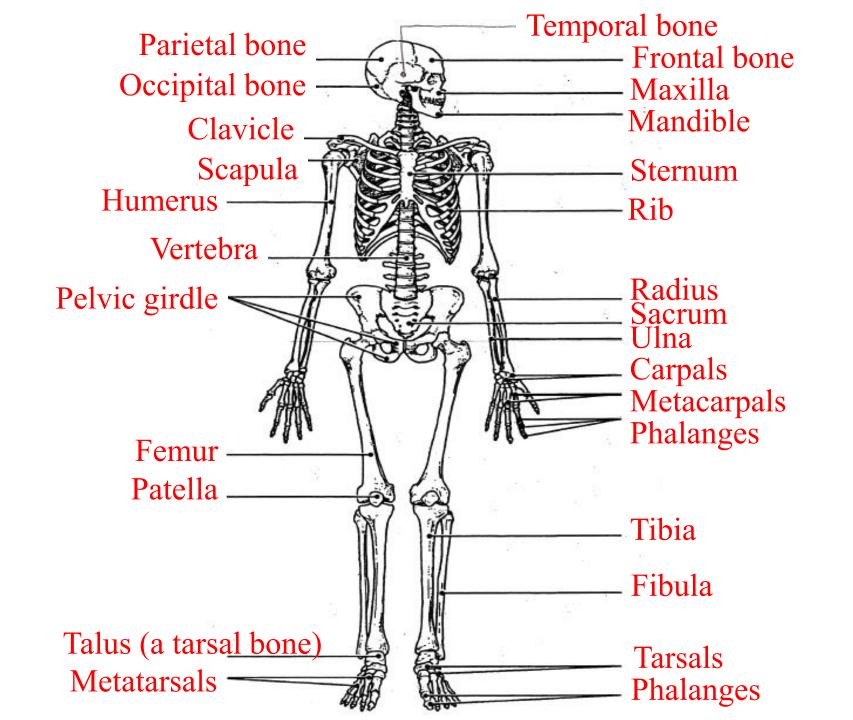
LESSON 12

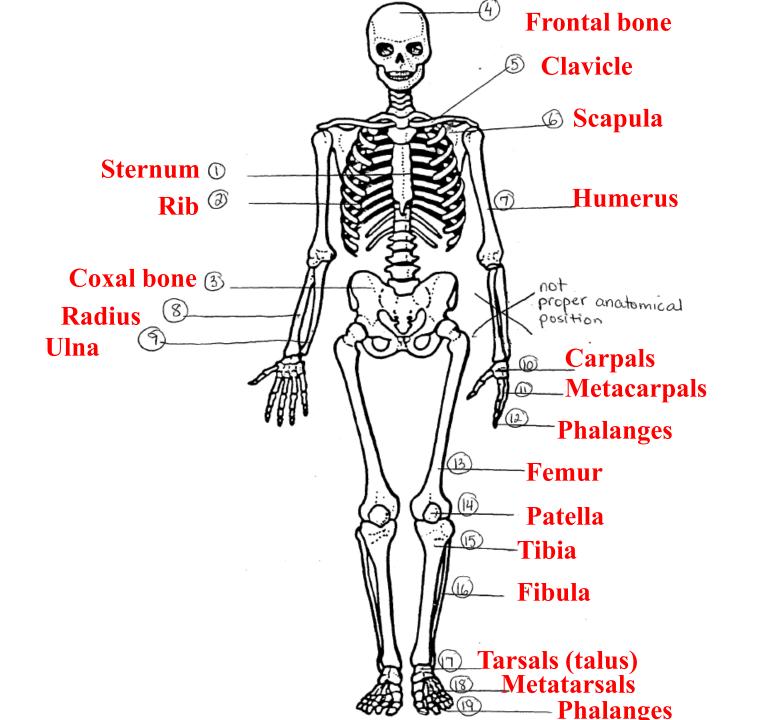
- Appendicular Skeleton (2)
 - Diagrams
 - Simon says
 - HW Skeletal Webquest

The Articulated Skeleton









Simon Says touch your

