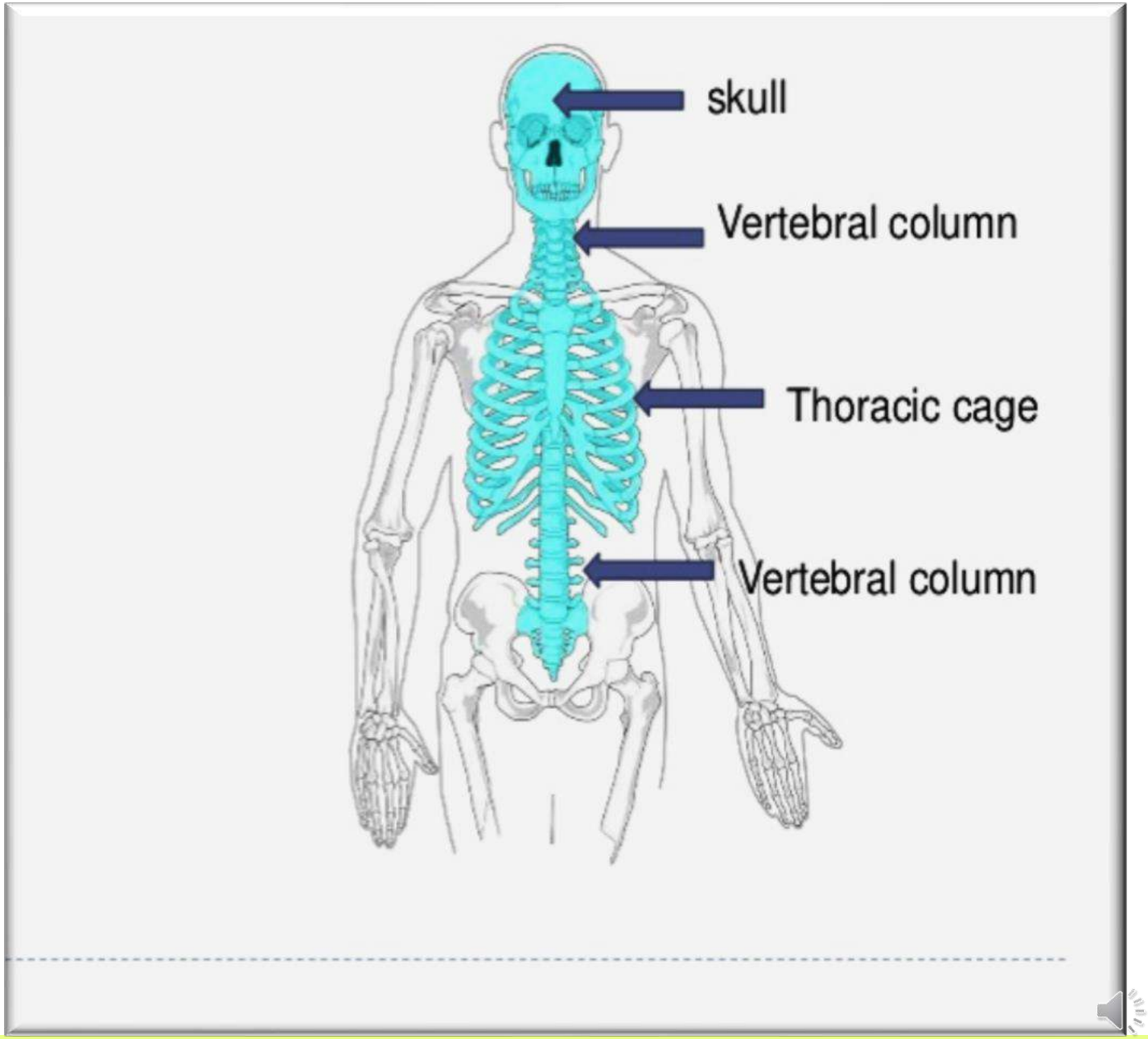
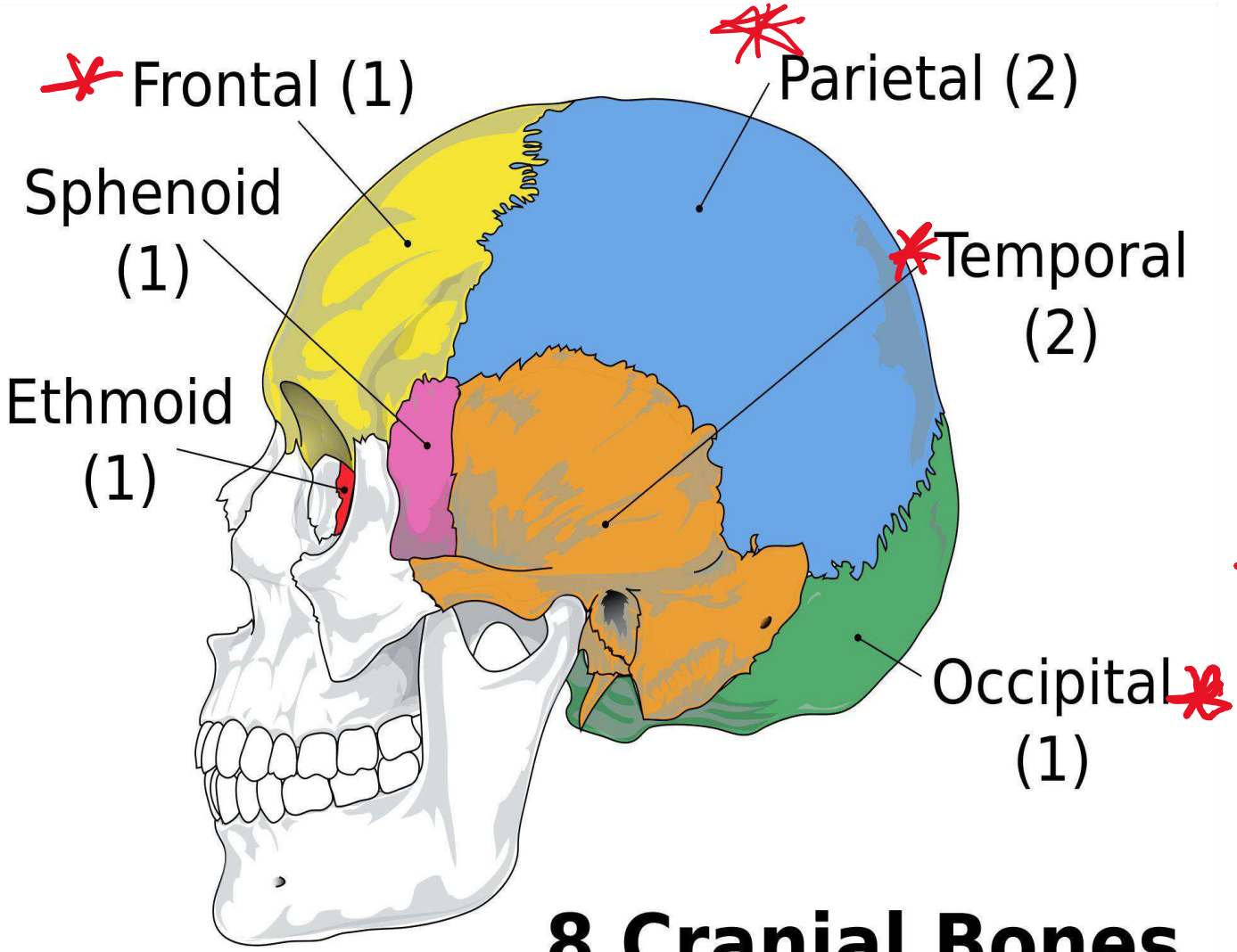
Axial Skeleton

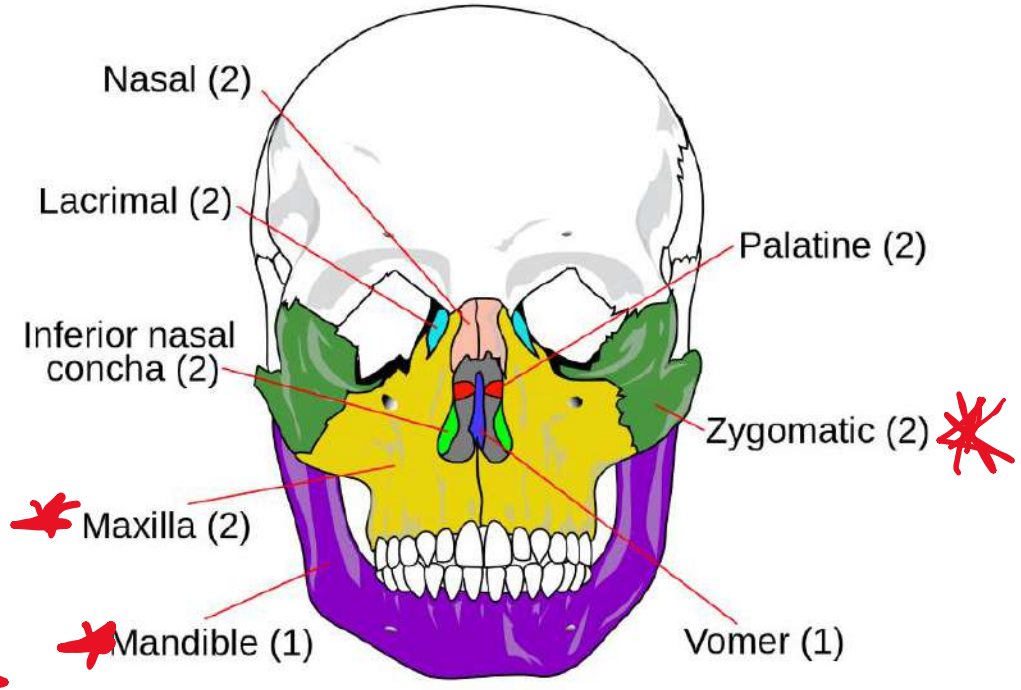
- Skull
- Vertebral column
- Thoracic cage



Bones of the Cranium & Face



8 Cranial Bones



14 Facial Bones

Vertebral Column

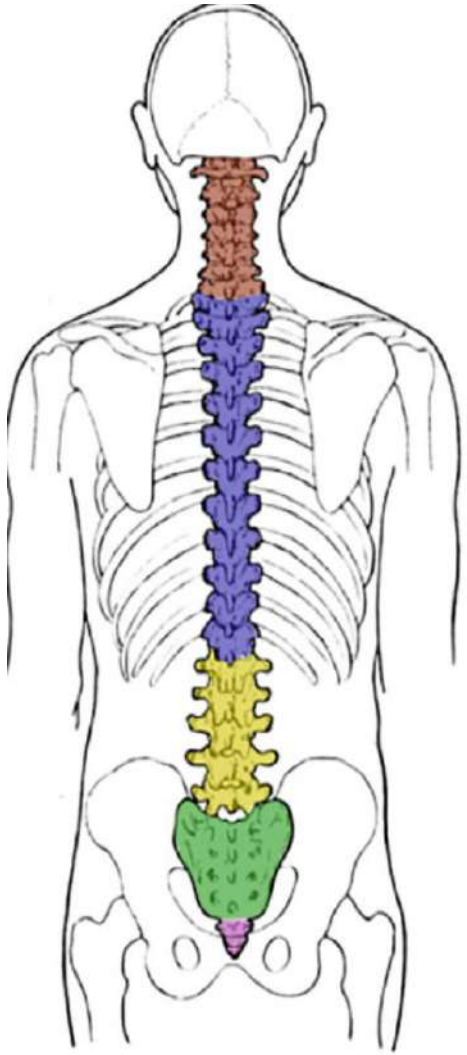
Cervical vertebrae: C1-C7. Atlas, Axis, Vertebra Prominens (C7). Allows head and neck movements

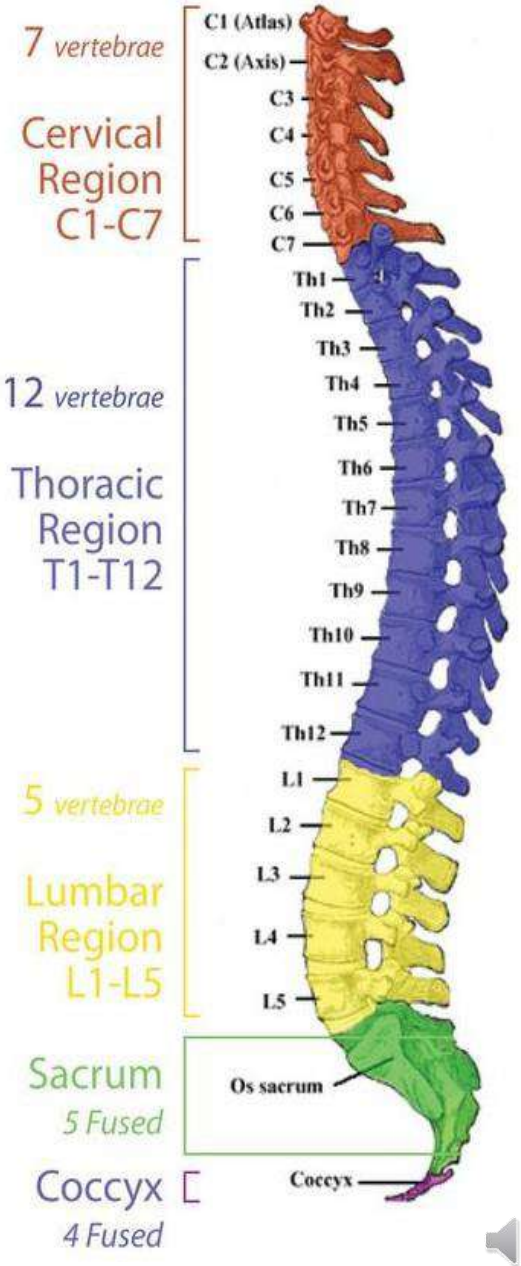
Thoracic vertebrae: T1-12. Transverse processes articulate with the 12 pairs of ribs posteriorly

Lumbar vertebrae: L1-L5. Main weight-bearing vertebrae

Sacrum: S1-S5. Fused to form a wedge-shaped bone. Articulates with the ilium to form sacroiliac joint (SIJ). Very little movement

Coccyx: 4 fused vertebrae form a triangular-shaped bone

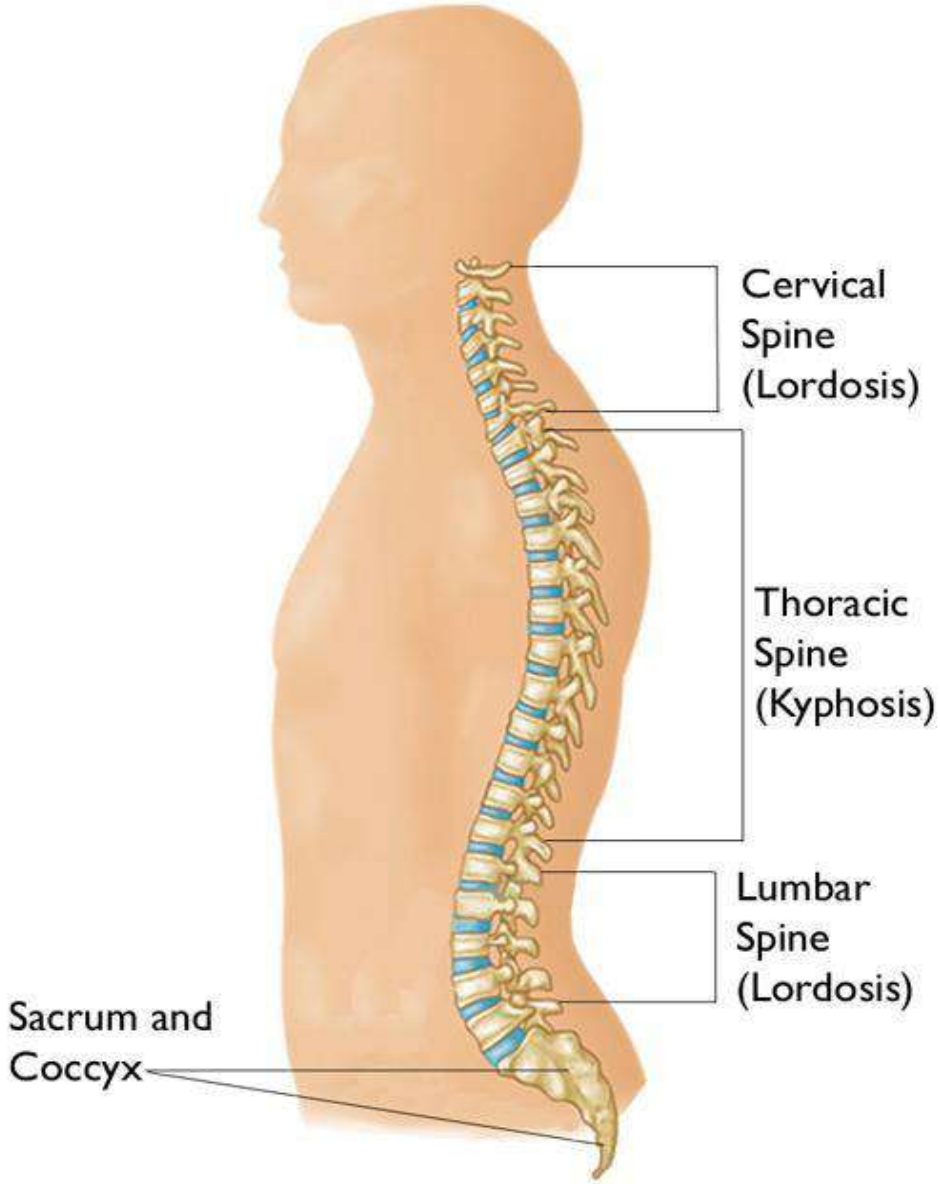




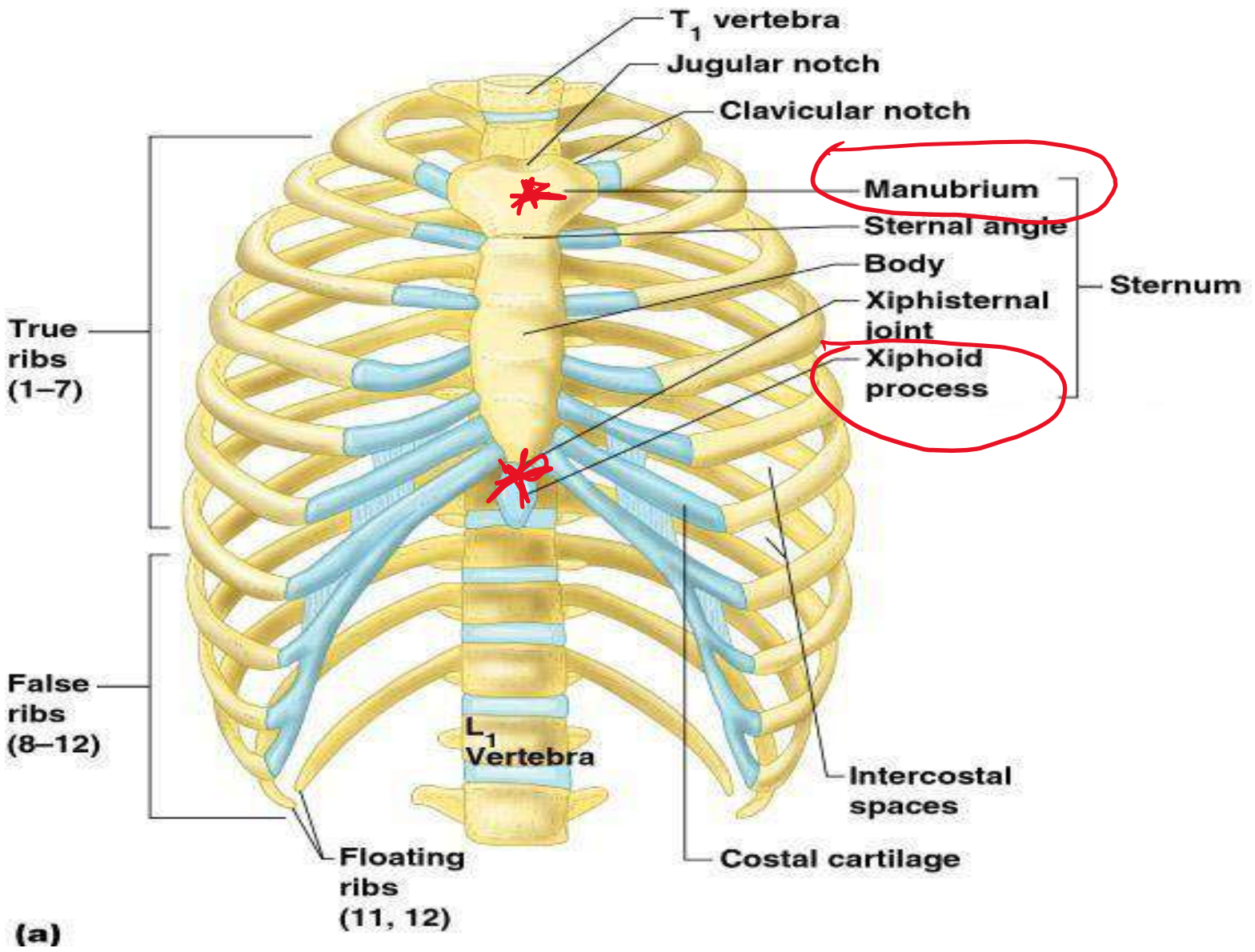
Shape of the spine

- S-shaped curve allows for even distribution of weight and flexibility of movement

- The cervical spine curves slightly inward - **lordosis**
- The thoracic spine curves outward - **kyphosis**
- The lumbar spine curves inward - **lordosis**



The Thorax



1 sternum

12 pairs of ribs

12 thoracic vertebrae

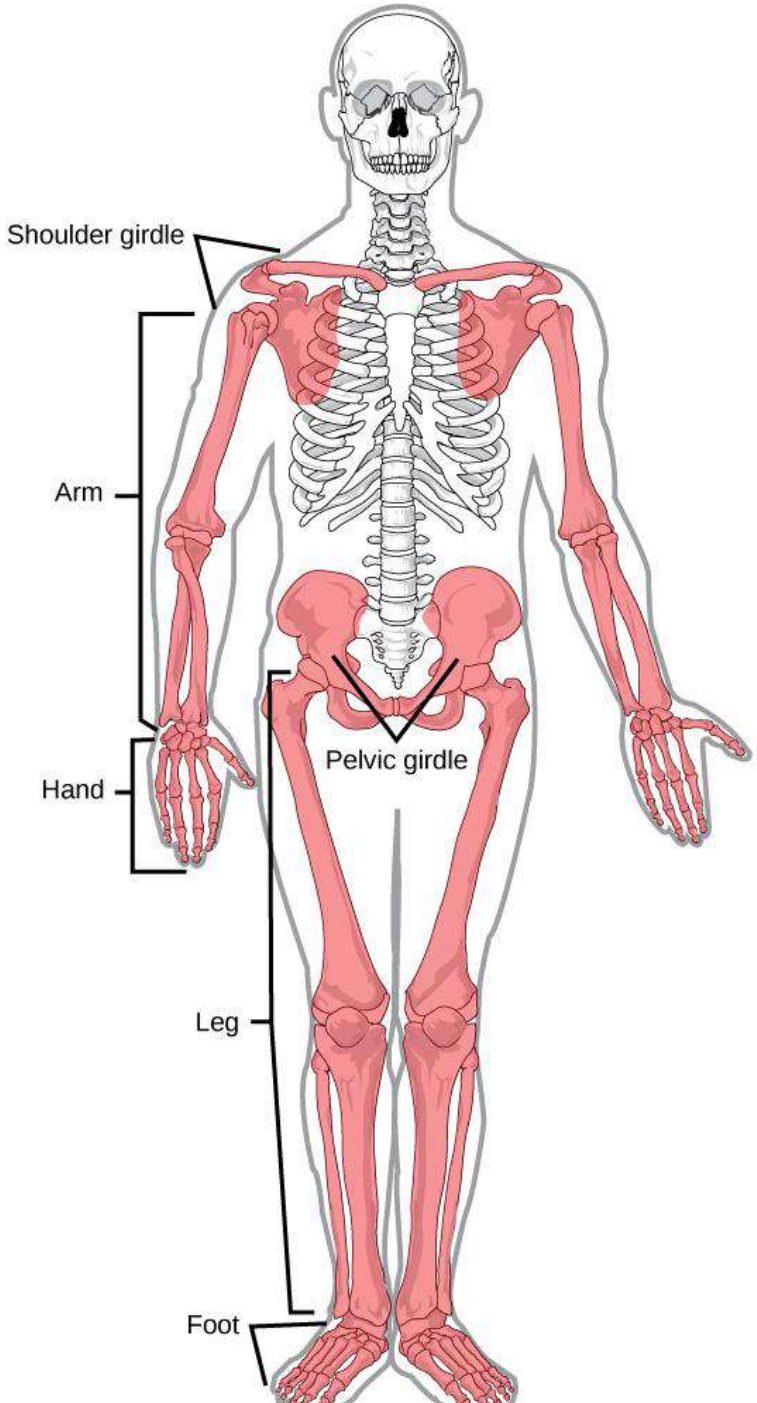
Axial Skeleton: Test your knowledge



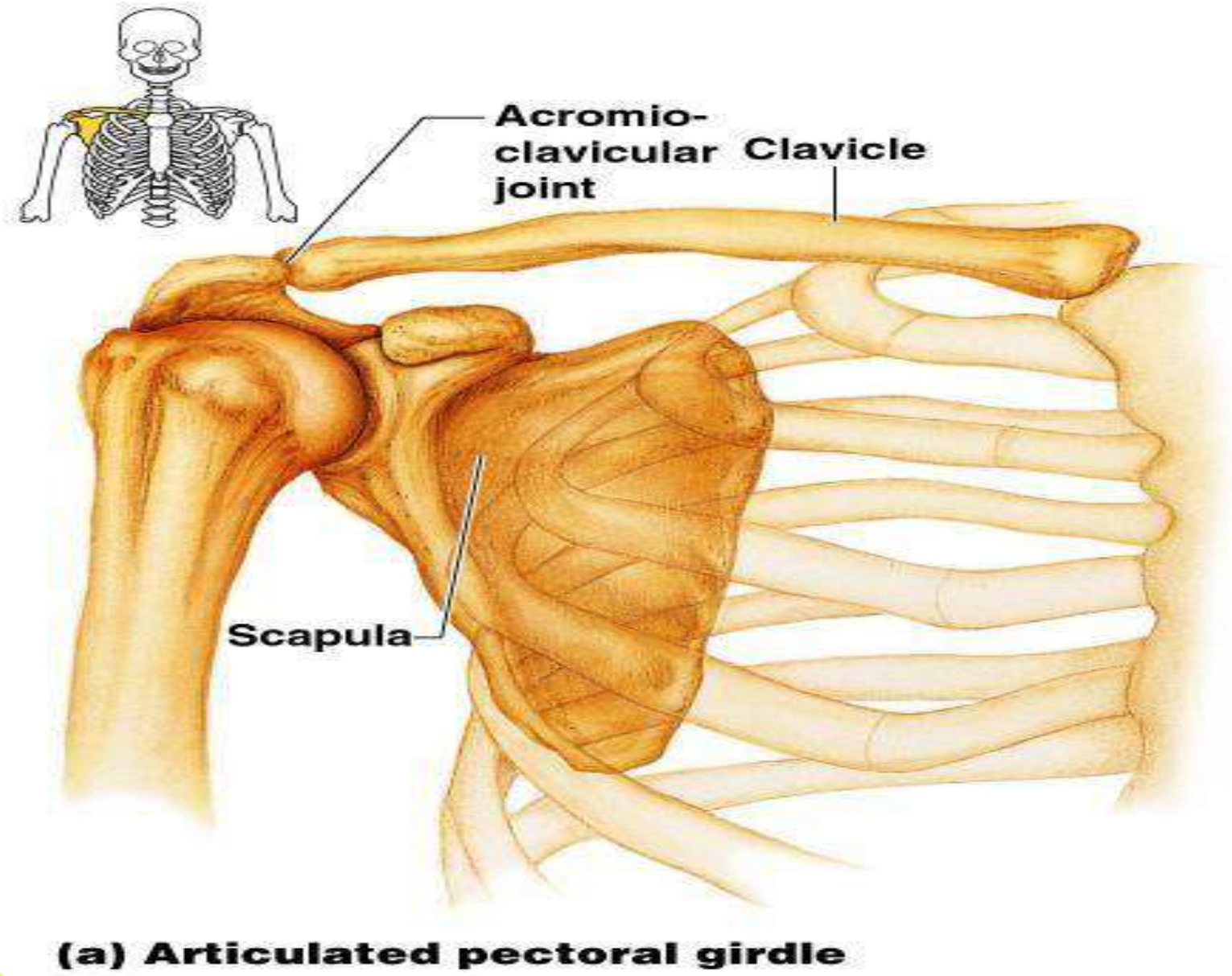
- What bone forms the top and sides of the cranium?
- Where is the occipital bone located?
- What is another name for the cheekbone?
- Name two bones which form the jaw?
- Name the sections of the spine and the number of vertebra in each
- What are the curves of the spine called?
- How many pairs of ribs are there in the body?
- What is the top and bottom of the sternum called?

Appendicular Skeleton

- shoulder girdle
- pelvic girdle
- upper and lower limbs



Shoulder (pectoral) Girdle: Clavicle & Scapula



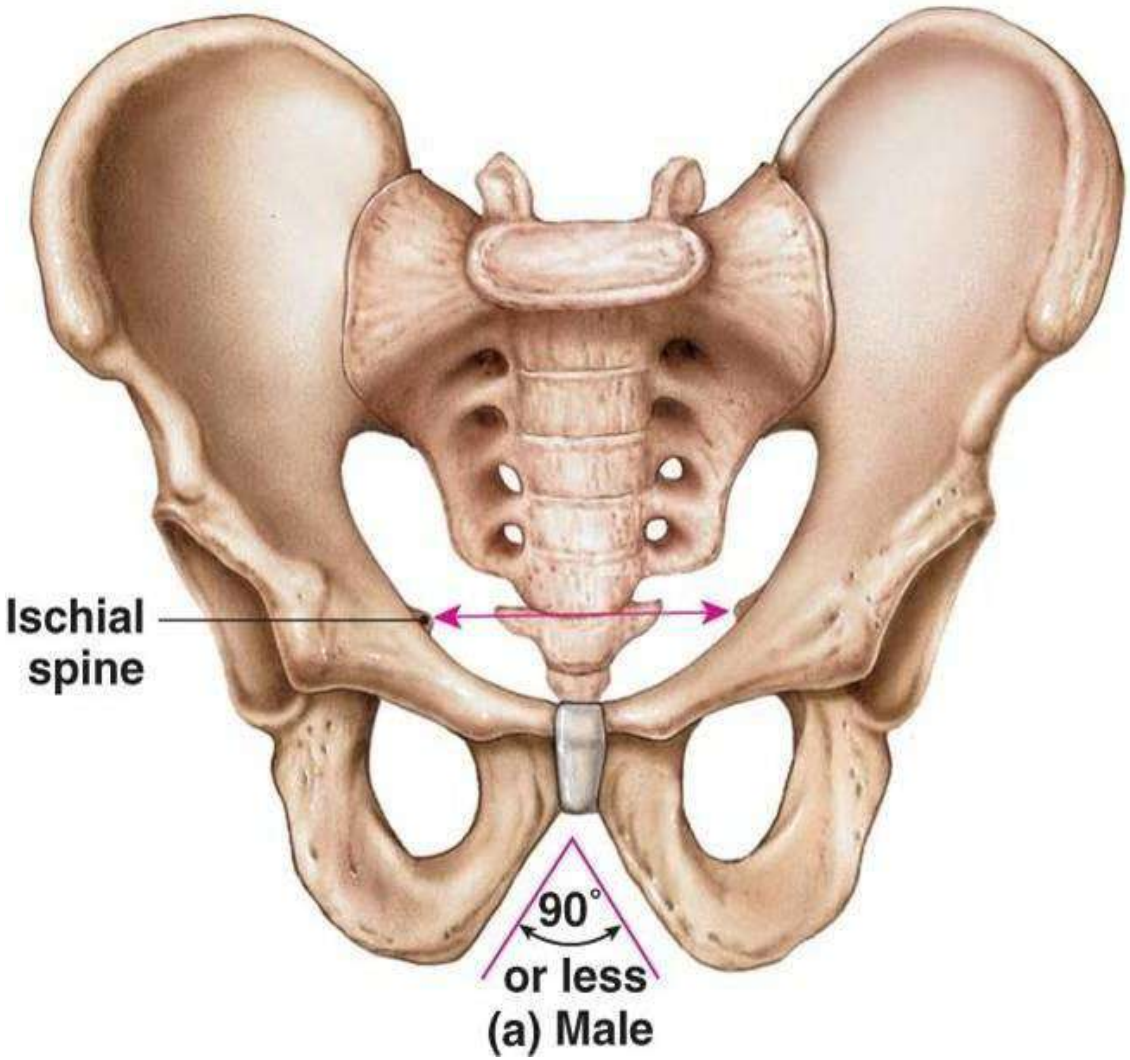
(a) Articulated pectoral girdle

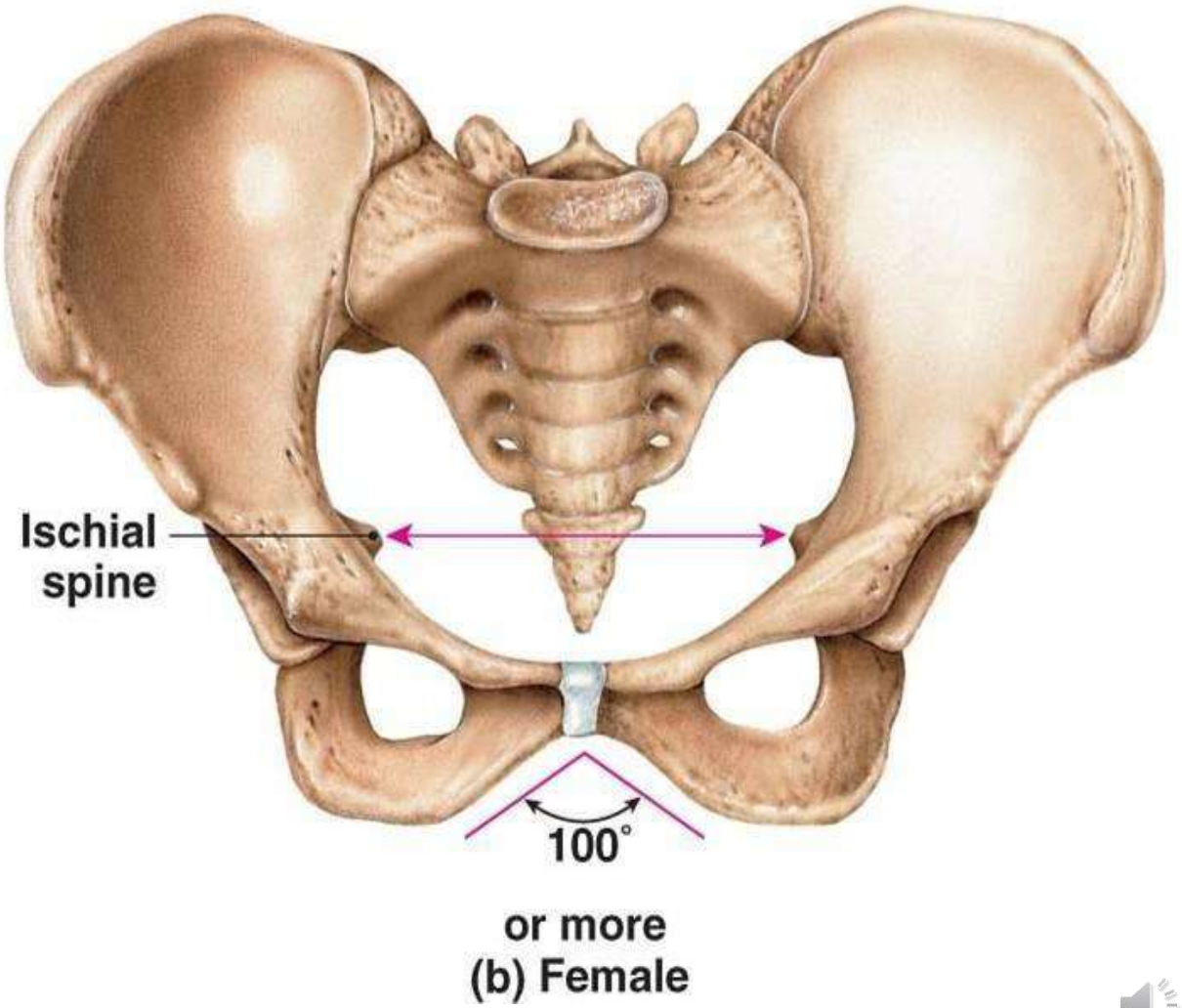
Pelvic girdle



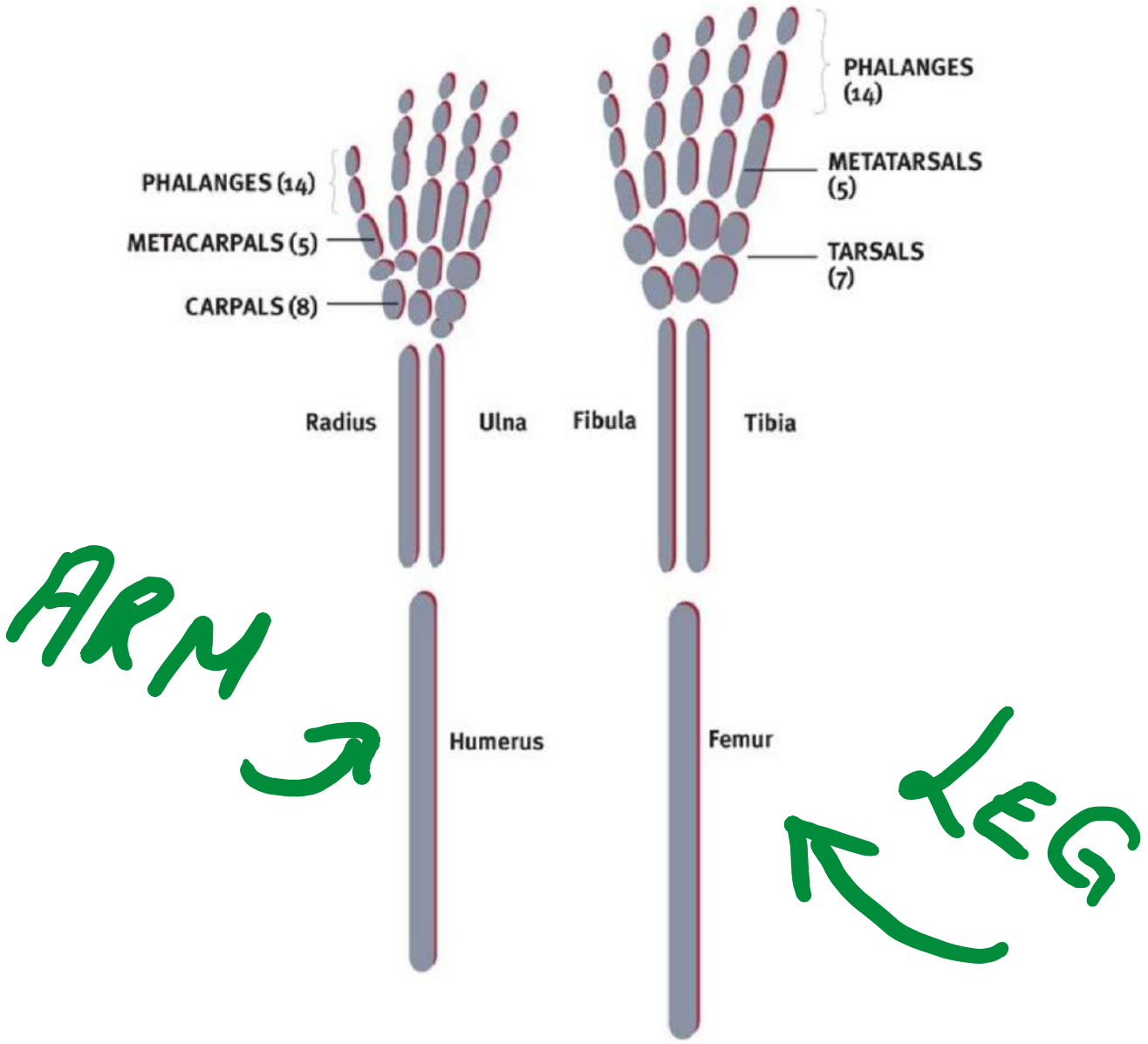
- Ilium, Ischium, Pubis –find them on yourself!
- Supports vertebral column
- Protection of organs
- Attaches lower limbs to axial skeleton
- Muscle attachment site

Female and Male Pelvis

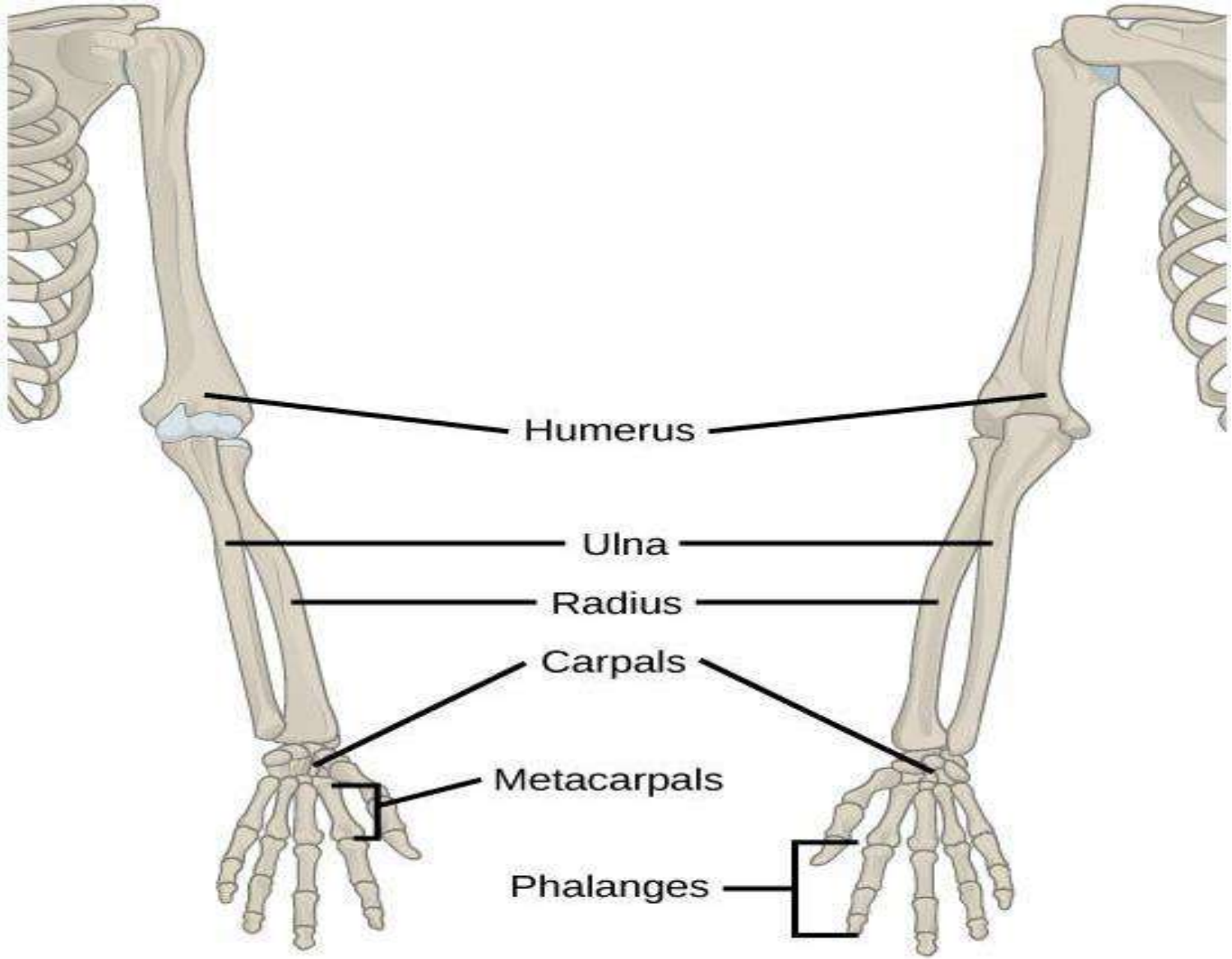




The Limbs


PHALANGES (14)
METACARPALS (5)
CARPALS (8)
Radius
Ulna
Humerus
ARM
PHALANGES (14)
METATARSALS (5)
TARSALS (7)
Fibula
Tibia
Femur
LEG

Upper limb



- 1 humerus
- 1 radius
- 1 ulna
- 8 carpal bones
- 5 metacarpals
- 14 phalanges

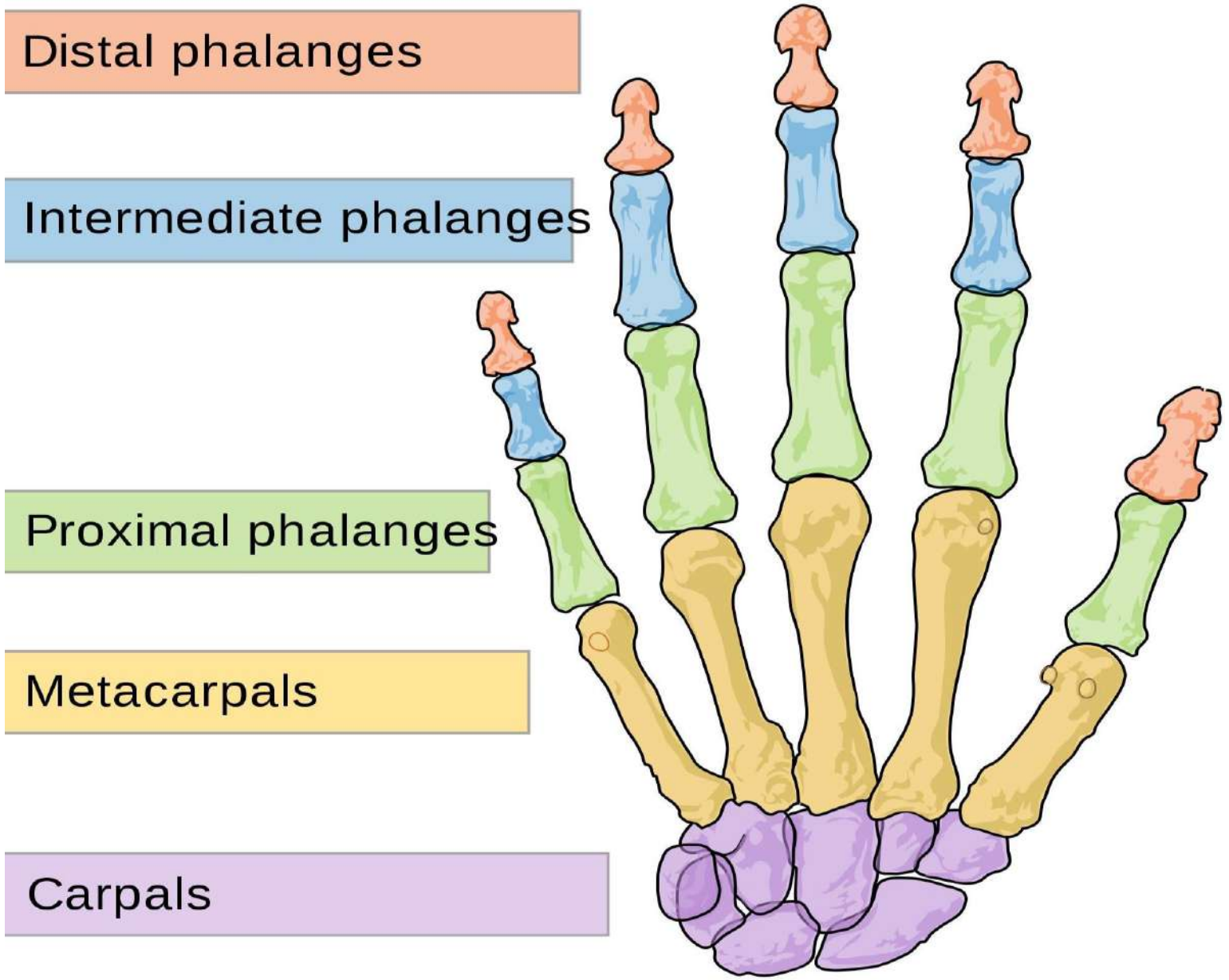
Wrist and hand

Distal:

- Trapezium
- Trapezoid
- Capitate
- Hamate

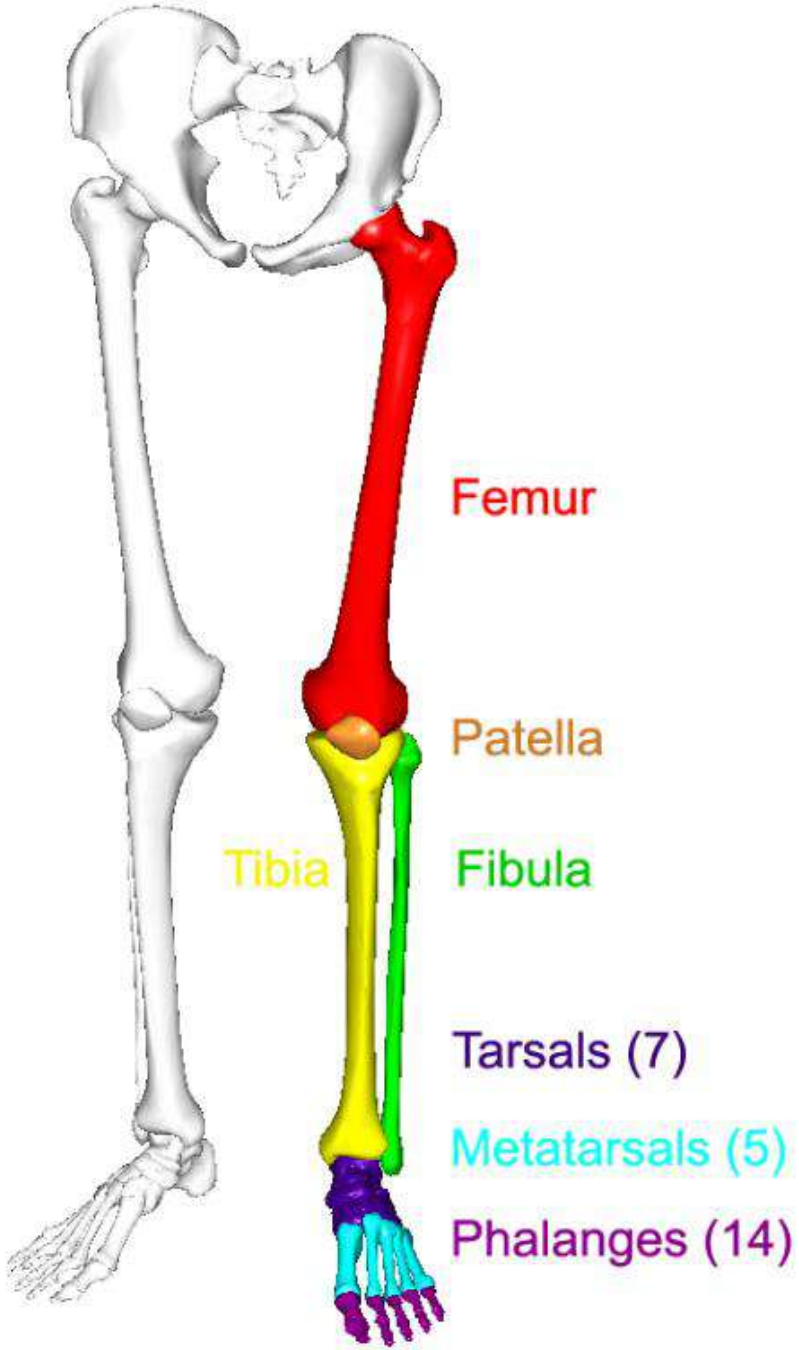
Proximal:

- Scaphoid
- Lunate
- Triquetrum
- Pisiform

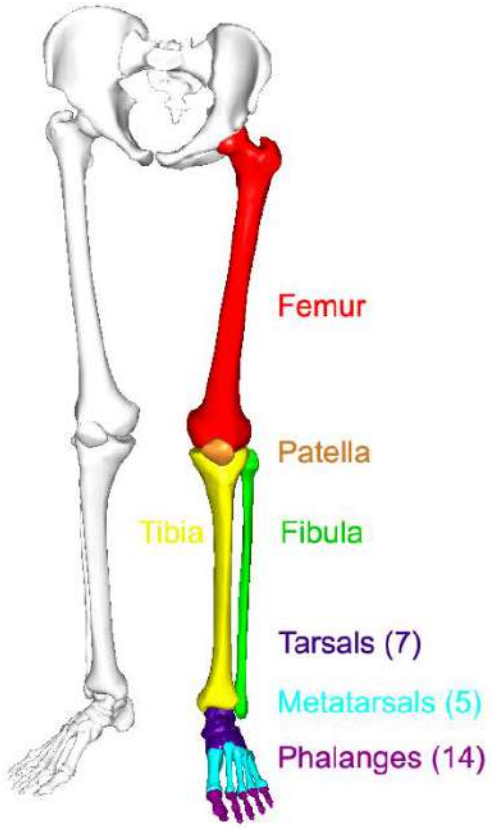


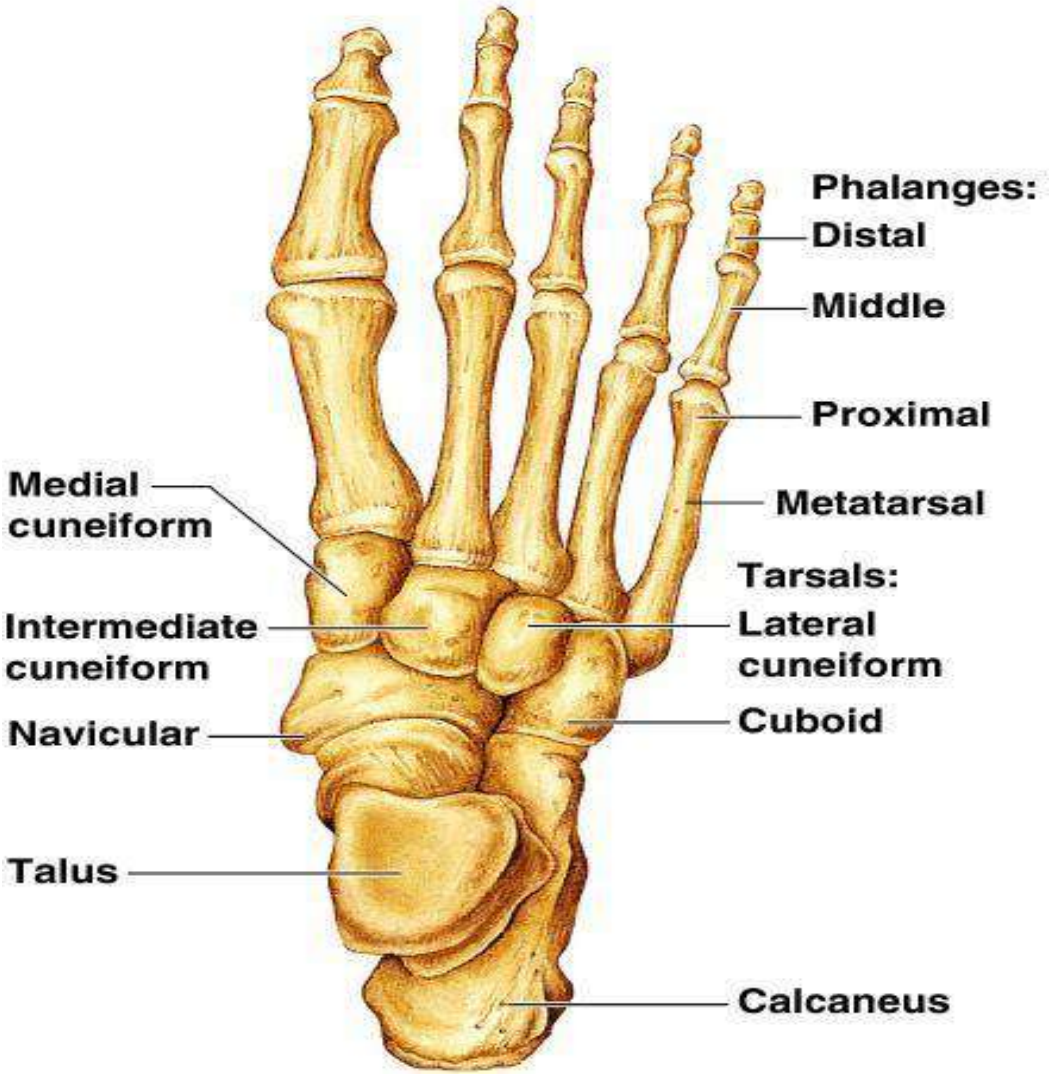
Lower limb

- Femur
- Tibia
- Fibula
- Patella
- 7 tarsal bones
- 5 metatarsal bones
- 14 phalanges



Ankle and Foot







Appendicular Skeleton: Test your knowledge



- Name the bones of the shoulder girdle
- Name the bones of the pelvic girdle
- What are the 3 long bones of the upper limb?
- How many carpal bones are there?
- Name the 3 long bones of the lower limb
- What is another name for fingers and toes?