

4.3 Division of Human Skeleton

New born Bones (300)

DIVISION OF HUMAN SKELETON

→ 18% of body weight
→ 91% Store (Ca^{++} , PO_4^{2-})

AXIAL SKELETON → 80

126 ← **APPENDICULAR SKELETON**

(206)

PROTECTIVE STRUCTURES

- SKULL
- VERTEBRAL COLUMN
- STERNUM
- RIB CAGE

APPENDAGES

- PECTORAL GIRDLES + FORE LIMB
- PELVIC GIRDLE + HIND LIMB

OSSIFICATION :

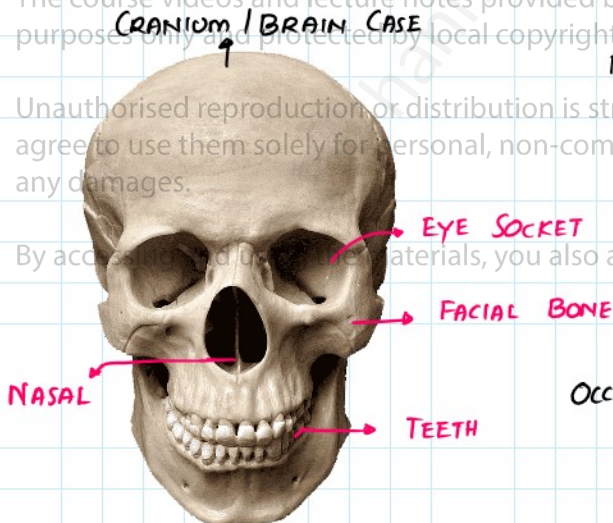
300 (New Born) → 206 (Adult)



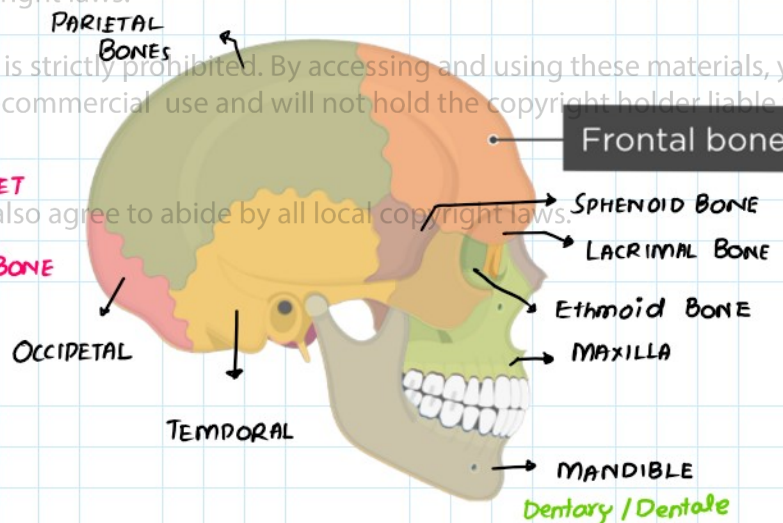
HUMAN SKULL

The course videos and lecture notes provided by Physics In Seconds are for educational and informational purposes only and are protected by local copyright laws.

Unauthorized reproduction or distribution is strictly prohibited. By accessing and using these materials, you agree to use them solely for personal, non-commercial use and will not hold the copyright holder liable for any damages.



FACIAL BONES 14



CRANIAL BONES 08

PAIRED

(12)

(2)

UN-PAIRED

PAIRED

(4)

(4)

UN-PAIRED

Palatine
Maxilla
Lacrimal
Nasal Bones
Inferior Concha
Zygomatic Bones

Vomer
Mandible

Parietal Bones
Temporal Bones

Sphenoid
Occipital
Frontal Bone
Ethmoid Bone

• HYOID BONE

- Lingual / U-shaped Bone
- Does not articulate with any other bone

• EAR OSSICLES (06)

- Malleus, Incus, **Stapes** (Smallest Bone)

4 CURVATURES

VERTEBRAL COLUMN

VERTEBRAS → 33
BONES → 26

THORACIC CURVATURE

(12)

T₁ → T₁₂
→ To attach **costal Bones** (Ribs)

PELVIC CURVATURE

(09)

SACRUM (Anterior 5)
COCYX (Posterior 4)
Tail Bone

CERVICAL CURVATURE → (07)

C₁ → C₇ (Neck Region)
C₁ (Atlas) → YES MOVEMENT
C₂ (Axis) → NO MOVEMENT

LUMBER CURVATURE (05)

L₁ → L₅

The course videos and lecture notes provided by Physics In Seconds are for educational and informational purposes only and protected by local copyright laws.

Unauthorised reproduction or distribution is strictly prohibited. By accessing and using these materials, you agree to use them solely for personal, non-commercial use and will not hold the copyright holder liable for any damages.

BREAST BONE
(Single Bone)

STERNUM AND RIB-CAGE

COSTAL CAGE

12 Pairs (24 Bones)

TRUE RIBS درستی بسلطان

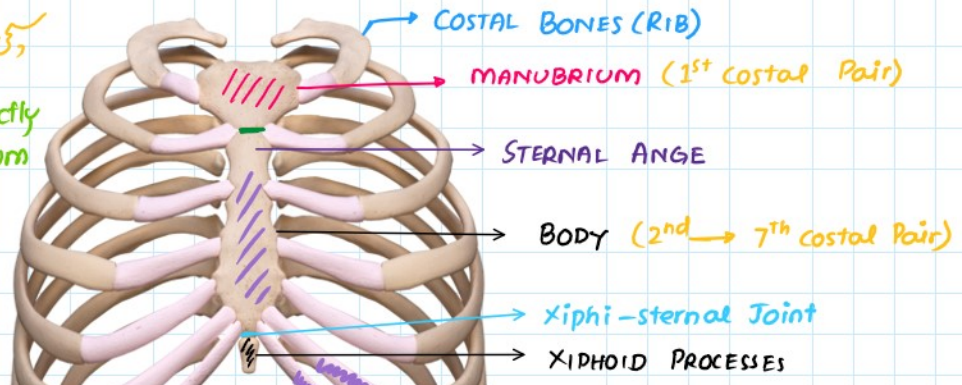
1st → 7th pair

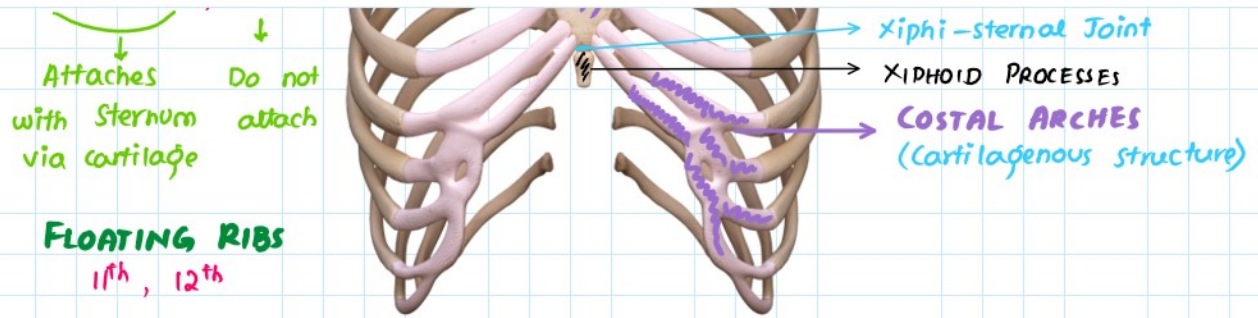
- Because they directly attaches with Sternum

FALSE RIBS جوفی

8th → 10th, 11th, 12th

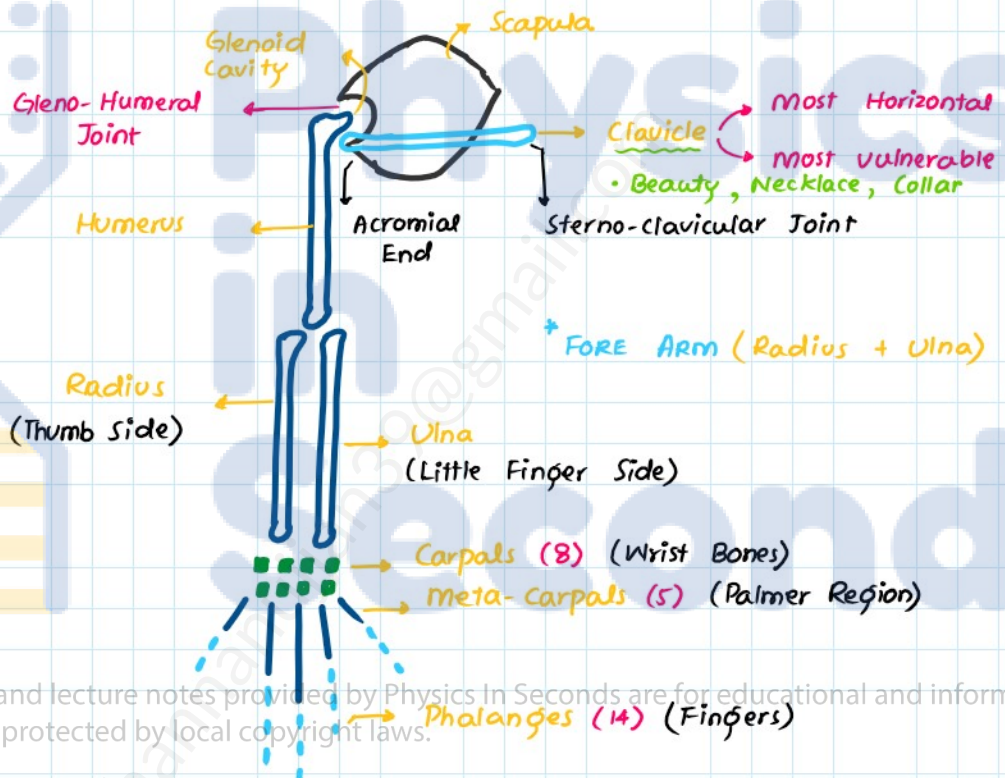
Attaches ↓ Do not





APPENDICULAR SKELETON

PECTORAL GIRDLE

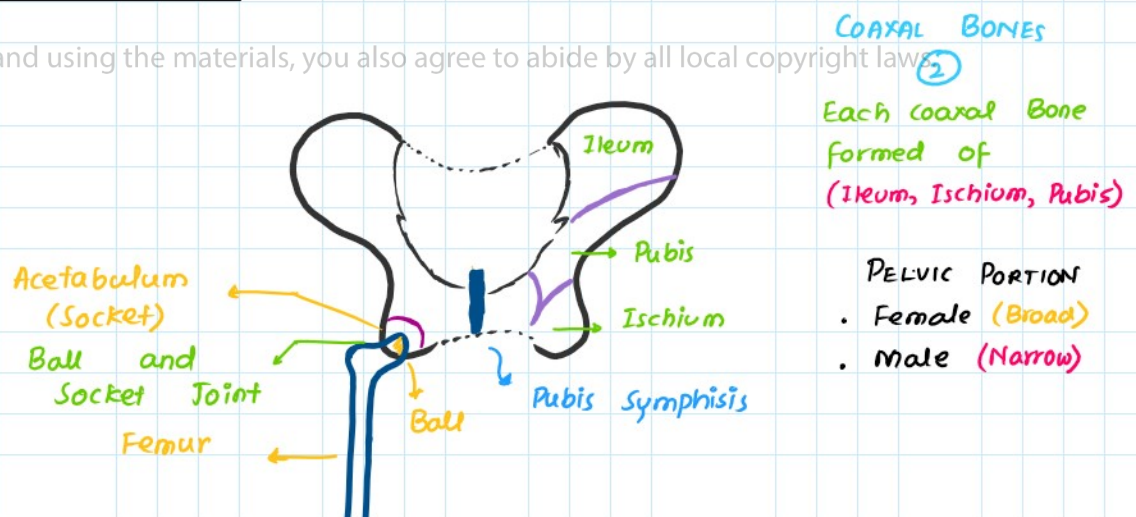


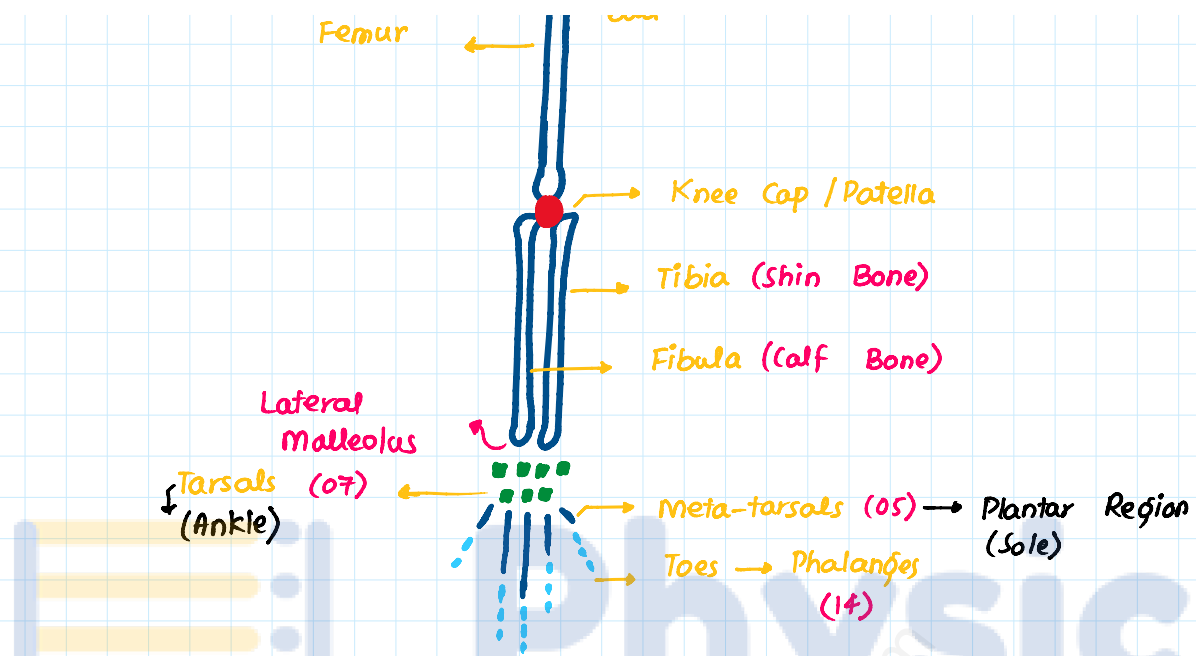
The course videos and lecture notes provided by Physics In Seconds are for educational and informational purposes only and protected by local copyright laws.

Unauthorised reproduction or distribution is strictly prohibited. By accessing and using these materials, you agree to use them solely for personal, non-commercial use and will not hold the copyright holder liable for any damages.

PELVIC GIRDLE AND HIND LIMB

By accessing and using the materials, you also agree to abide by all local copyright laws.





The course videos and lecture notes provided by Physics In Seconds are for educational and informational purposes only and protected by local copyright laws.

Unauthorised reproduction or distribution is strictly prohibited. By accessing and using these materials, you agree to use them solely for personal, non-commercial use and will not hold the copyright holder liable for any damages.

By accessing and using the materials, you also agree to abide by all local copyright laws.