

Color Index:

- Important Points
- Helping notes
- Explanation

If you have any complaint or suggestion please don't hesitate to contact us on: AnatomyTeam434@gmail.com

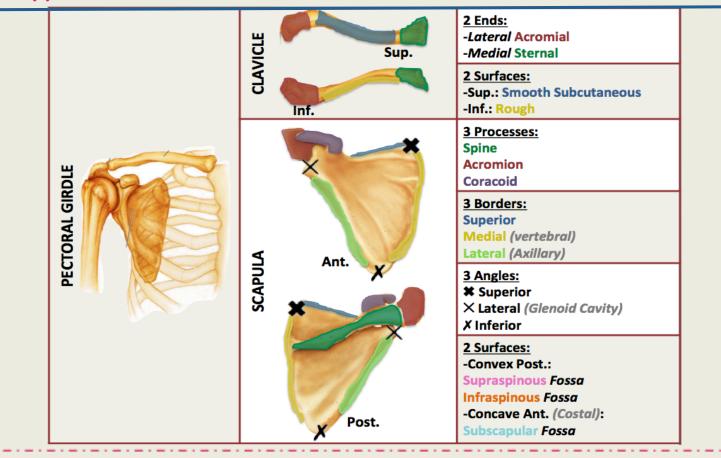
General	Term	Meaning
Processes that helps to form joints (Articulation)	Condyle	Large, rounded articular
	Facet	Smooth, flat surface
	Head	Enlarged portion at an end of a bone
	Ramus	Branch or extension of a bone
Processes that provide for the attachment of muscles and ligaments (Projection)	Crest	Narrow ridge
	Epicondyle Linea (line)	Process on or above a condyle Narrow ridge (less prominent than a crest)
	Spine	Sharp or pointed process (spinous process)
	Trochanter	Large, irregularly shaped process (found only on the femur)
	Tubercle	Small, knoblike process
	Tuberosity	Large, knoblike process (rough)

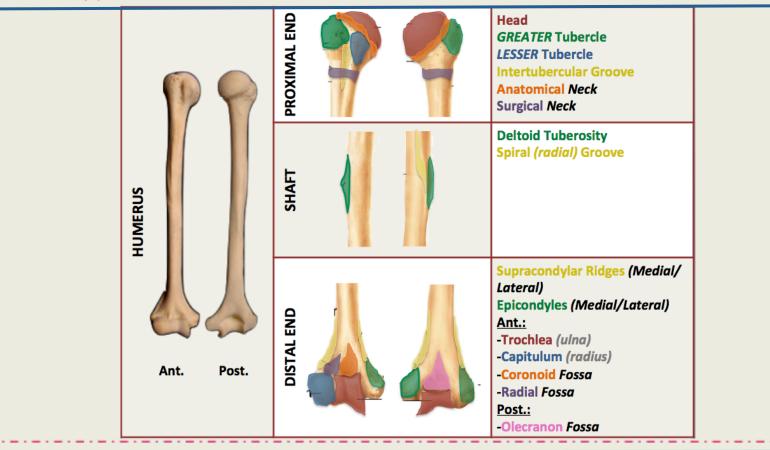
New Terms

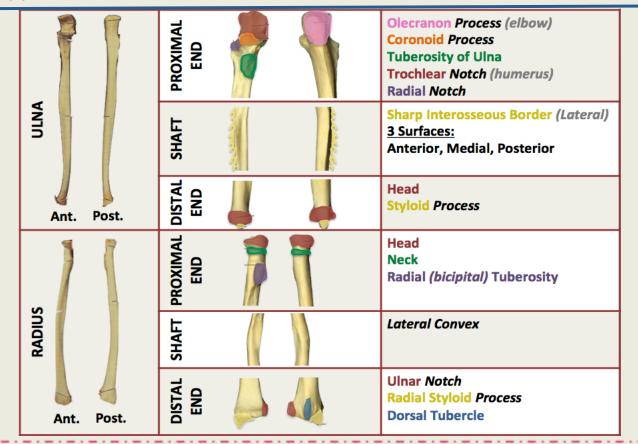
General	Term	Meaning
	Notch	An indentation, (incision) on an edge or surface
	Fissure	Narrow opening
	Fontanel	Membrane-covered spaces between skull bones
Depressions or	Interosseous border	Between bones (the place where the two parallel bones attach together by the interosseous membrane)
openings (may provide	Foramen	Round opening
passageways for blood vessels and	Sinus	Interior cavity
Vessels and nerves) Fovea Pit-like depression Meatus Tube-like passage Fossa Shallow depression Sulcus"groove" Long, narrow depression	Pit-like depression	
	Tube-like passage	
	Fossa	Shallow depression
	Sulcus"groove"	Long, narrow depression
	Alveolus	A pit or socket (tooth socket)

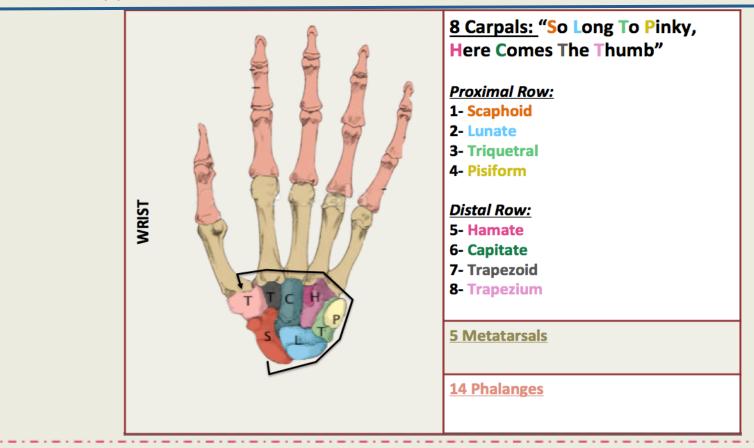
Upper Limbs Bones		Characteristic features	
	Clavicle	 Subcutaneous." lying under the skin " medial (Sternal) end is enlarged & triangular. ²/₃ and convex lateral (Acromial) end is flattened. ¹/₃ and concave 	
Pectoral Girdle	Scapula	 A triangular Flat bone (Irregular). It has Three Processes (1)Spine(2) Acromion(3) Coracoid Three Borders: Superior, Medial (Vertebral) & Lateral (Axillary the thickest part of the bone). Three Angles, Two Surfaces. Most of it is protected by muscles Subcutaneous partAcromion 	
Arm	Humerus	 Long bone The Most common fractures are of the Surgical Neck especially in elder people with osteoporosis In younger people, fractures of the greater tubercle 	

Upper Limbs Bones		Characteristic features
	Radius	 It has a wider distal end. It is the lateral & shorter
Forearm	Ulna	 Proximal end is bigger than distal end. It is the medial & longer It is the stabilizing bone of the forearm.
Wrist	Carpals	 Eight Carpal, short bones, arranged in two irregular rows, four for each row. Give flexibility to the wrist
Hand	Metacarpals	 Five Metacarpal bones. The distal ends (Heads) articulate with the proximal phalanges to form the Knuckles of the fist. The1st metacarpal is the shortest and most mobile.
Hanu	Phalanges	 Each digit has three phalanges, except the Thumb which has only two. The middle ones are intermediate in size. The distal ones are the smallest.



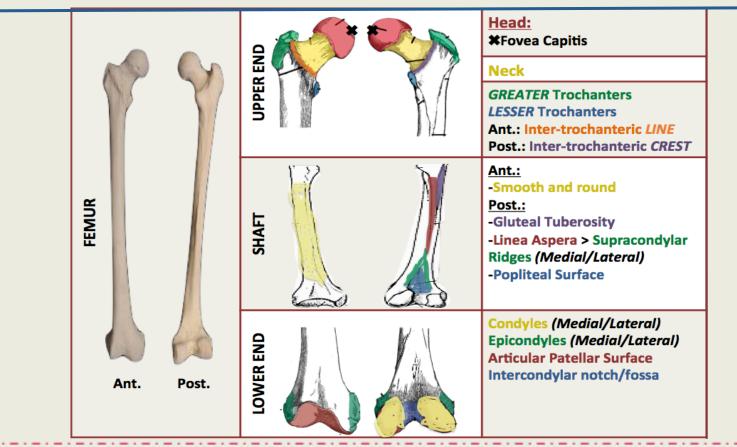




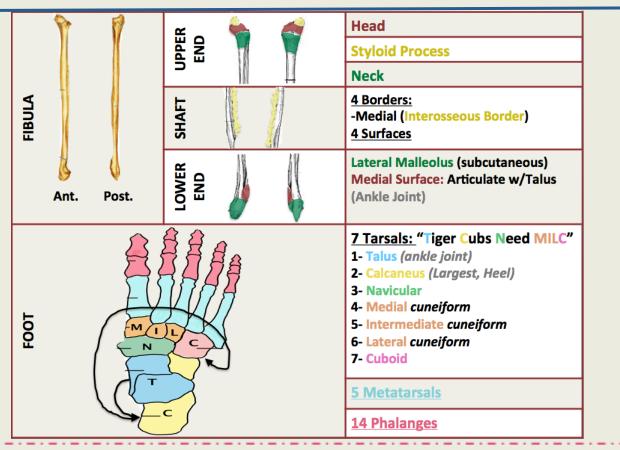


Lower Limbs Bones	Characteristic features
Femur	 Articulation: with hipbone above and patella and tibia below Structures: head, neck, greater and lesser trochanters, intertrochanteric line (iliofemoral ligament attachment), intertrochanteric crest (has quadrate tubercle), linea aspera (ridge on POSTERIOR PART), epicondyles, condyles, patellar groove (anterior), and intercondylar notch (posterior). Position: head is medial + upward shaft convex + smooth anteriorly Shaft is rough + concave posteriorly
Patella	-Largest sesamoid bone - anterior part is subcutaneous - its posterior surface articulates with the condyles of femur - Apex is inferior - gives attachment to quadriceps femoris muscle
Tibia	 Upper end: 2 condyles + intercondylar area (eminence) Shaft: tibial tuberosity Lower part subcutaneous Soleal line posteriorly Lower end: articulates with talus Has fibular notch – medial malleolus (medial surface: subcutaneous Lateral surface: articulates with talus) Position: upper end is large Medial malleolus is downward and medial Shaft has sharp anterior border

Lower Limbs Bones	Characteristic features
Fibula	 lateral bone of the leg takes no part in knee joint articulation BUT it has to do with the ankle joint has lateral malleolus at the distal end and its medial surface articulates with the talus to form the ankle joint !
Tarsals	 7 bones (calcaneum - talus - navicular - cuboid - <u>3 cuneiforms</u>) Talus: for ankle joint Calcaneus: largest bone of the foot + forms the heel of the foot
Metatarsals + Phalanges	 Metatarsals: numbered from medial to lateral <u>(opposite to the hand ==> lateral to medial)</u> Phalanges: 3 for each toe except big toe has 2 only long bones



ELLA	SURFACE	Ant.: Rough and Subcutaneous <u>Post.: (Knee Joint)</u> Articulate w/Condyles of femur
PATELLA	MARGINS	Upper/Medial/Lateral: Attach to Quadriceps Femoris Muscles Inferior Apex: Attach to Tuberosity of Tibia by Ligamentum Patellae
		Condyles: (LARGE Medial/small Lateral) Intercondylar Area
VIII Ant.	SHAFT	Tibial Tuberosity <u>3 Borders:</u> -Anterior (Sharp/Subcutaneous) -Medial -Lateral (Interosseous Border) <u>3 Surfaces:</u> -Posterior (Soleal Line) -Medial (Subcutaneous) -Lateral
		Medial Malleolus Surfaces: -Medial > Subcutaneous -Lateral > Articulate w/Talus (Ankle Joint) Fibular Notch: (Distal Tibiofibular Joint)







Done by: Noha AlGwaiz & Tariq AlHassan