A&P Key Terms 08 The Appendicular Skeleton

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- 1. A&P Key Terms 08 The Appendicular Skeleton Questions

acetabulum	large, cup-shaped cavity located on the lateral side of the hip bone; formed by the junction of the ilium, pubis, and ischium portions of the hip bone
acromial end of the clavicle	lateral end of the clavicle that articulates with the acromion of the scapula
acromial process	acromion of the scapula
acromioclavicular joint	articulation between the acromion of the scapula and the acromial end of the clavicle
acromion	flattened bony process that extends laterally from the scapular spine to form the bony tip of the shoulder
adductor tubercle	small, bony bump located on the superior aspect of the medial epicondyle of the femur
anatomical neck	line on the humerus located around the outside margin of the humeral head
ankle joint	joint that separates the leg and foot portions of the lower limb; formed by the articulations between the talus bone of the foot inferiorly, and the distal end of the tibia, medial malleolus of the tibia, and lateral malleolus of the fibula superiorly
anterior border of the tibia	narrow, anterior margin of the tibia that extends inferiorly from the tibial tuberosity
anterior inferior iliac spine	small, bony projection located on the anterior margin of the ilium, below the anterior superior iliac spine
anterior sacroiliac ligament	strong ligament between the sacrum and the ilium portions of the hip bone that supports the anterior side of the sacroiliac joint
anterior superior iliac spine	rounded, anterior end of the iliac crest
apical ectodermal ridge	enlarged ridge of ectoderm at the distal end of a limb bud that stimulates growth and elongation of the limb
arcuate line of the ilium	smooth ridge located at the inferior margin of the iliac fossa; forms the lateral portion of the pelvic brim
arm	region of the upper limb located between the shoulder and elbow joints; contains the humerus bone
auricular surface of the ilium	roughened area located on the posterior, medial side of the ilium of the hip bone; articulates with the auricular surface of the sacrum to form the sacroiliac joint

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base of the metatarsal bone	expanded, proximal end of each metatarsal bone
bicipital groove	intertubercular groove; narrow groove located between the greater and lesser tubercles of the humerus
calcaneus	heel bone; posterior, inferior tarsal bone that forms the heel of the foot
<u>capitate</u>	from the lateral side, the third of the four distal carpal bones; articulates with the scaphoid and lunate proximally, the trapezoid laterally, the hamate medially, and primarily with the third metacarpal distally
capitulum	knob-like bony structure located anteriorly on the lateral, distal end of the humerus
<u>carpal bone</u>	one of the eight small bones that form the wrist and base of the hand; these are grouped as a proximal row consisting of (from lateral to medial) the scaphoid, lunate, triquetrum, and pisiform bones, and a distal row containing (from lateral to medial) the trapezium, trapezoid, capitate, and hamate bones
carpal tunnel	passageway between the anterior forearm and hand formed by the carpal bones and flexor retinaculum
carpometacarpal joint	articulation between one of the carpal bones in the distal row and a metacarpal bone of the hand
<u>clavicle</u>	collarbone; elongated bone that articulates with the manubrium of the sternum medially and the acromion of the scapula laterally
coracoclavicular ligament	strong band of connective tissue that anchors the coracoid process of the scapula to the lateral clavicle; provides important indirect support for the acromioclavicular joint
coracoid process	short, hook-like process that projects anteriorly and laterally from the superior margin of the scapula
coronoid fossa	depression on the anterior surface of the humerus above the trochlea; this space receives the coronoid process of the ulna when the elbow is maximally flexed
coronoid process of the ulna	projecting bony lip located on the anterior, proximal ulna; forms the inferior margin of the trochlear notch
costoclavicular ligament	band of connective tissue that unites the medial clavicle with the first rib
coxal bone	hip bone

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cuboid	tarsal bone that articulates posteriorly with the calcaneus bone, medially with the lateral cuneiform bone, and anteriorly with the fourth and fifth metatarsal bones
deltoid tuberosity	roughened, V-shaped region located laterally on the mid-shaft of the humerus
distal radioulnar joint	articulation between the head of the ulna and the ulnar notch of the radius
distal tibiofibular	joint articulation between the distal fibula and the fibular notch of the tibia
<u>elbow joint</u>	joint located between the upper arm and forearm regions of the upper limb; formed by the articulations between the trochlea of the humerus and the trochlear notch of the ulna, and the capitulum of the humerus and the head of the radius
femur	thigh bone; the single bone of the thigh
fibula	thin, non-weight-bearing bone found on the lateral side of the leg
fibular notch	wide groove on the lateral side of the distal tibia for articulation with the fibula at the distal tibiofibular joint
flexor retinaculum	strong band of connective tissue at the anterior wrist that spans the top of the U-shaped grouping of the carpal bones to form the roof of the carpal tunnel
foot	portion of the lower limb located distal to the ankle joint
forearm	region of the upper limb located between the elbow and wrist joints; contains the radius and ulna bones
fossa	(plural: fossae) shallow depression on the surface of a bone
fovea capitis	minor indentation on the head of the femur that serves as the site of attachment for the ligament to the head of the femur
glenohumeral joint	shoulder joint; formed by the articulation between the glenoid cavity of the scapula and the head of the humerus
glenoid cavity	(also, glenoid fossa) shallow depression located on the lateral scapula, between the superior and lateral borders

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gluteal tuberosity	roughened area on the posterior side of the proximal femur, extending inferiorly from the base of the greater trochanter
greater pelvis	(also, greater pelvic cavity or false pelvis) broad space above the pelvic brim defined laterally by the fan-like portion of the upper ilium
greater sciatic foramen	pelvic opening formed by the greater sciatic notch of the hip bone, the sacrum, and the sacrospinous ligament
greater sciatic notch	large, U-shaped indentation located on the posterior margin of the ilium, superior to the ischial spine
greater trochanter	large, bony expansion of the femur that projects superiorly from the base of the femoral neck
greater tubercle	enlarged prominence located on the lateral side of the proximal humerus
hallux	big toe; digit 1 of the foot
hamate	from the lateral side, the fourth of the four distal carpal bones; articulates with the lunate and triquetrum proximally, the fourth and fifth metacarpals distally, and the capitate laterally
hand	region of the upper limb distal to the wrist joint
head of the femur	rounded, proximal end of the femur that articulates with the acetabulum of the hip bone to form the hip joint
head of the fibula	small, knob-like, proximal end of the fibula; articulates with the inferior aspect of the lateral condyle of the tibia
head of the humerus	smooth, rounded region on the medial side of the proximal humerus; articulates with the glenoid fossa of the scapula to form the glenohumeral (shoulder) joint
head of the metatarsal bone	expanded, distal end of each metatarsal bone
head of the radius	disc-shaped structure that forms the proximal end of the radius; articulates with the capitulum of the humerus as part of the elbow joint, and with the radial notch of the ulna as part of the proximal radioulnar joint
head of the ulna	small, rounded distal end of the ulna; articulates with the ulnar notch of the distal radius, forming the distal radioulnar joint

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hip bone	coxal bone; single bone that forms the pelvic girdle; consists of three areas, the ilium, ischium, and pubis
hip joint	joint located at the proximal end of the lower limb; formed by the articulation between the acetabulum of the hip bone and the head of the femur
hook of the hamate bone	bony extension located on the anterior side of the hamate carpal bone
humerus	single bone of the upper arm
iliac crest	curved, superior margin of the ilium
iliac fossa	shallow depression found on the anterior and medial surfaces of the upper ilium
ilium	superior portion of the hip bone
inferior angle of the scapula	inferior corner of the scapula located where the medial and lateral borders meet
inferior pubic ramus	narrow segment of bone that passes inferiorly and laterally from the pubic body; joins with the ischial ramus to form the ischiopubic ramus
infraglenoid tubercle	small bump or roughened area located on the lateral border of the scapula, near the inferior margin of the glenoid cavity
infraspinous fossa	broad depression located on the posterior scapula, inferior to the spine
intercondylar eminence	irregular elevation on the superior end of the tibia, between the articulating surfaces of the medial and lateral condyles
intercondylar fossa	deep depression on the posterior side of the distal femur that separates the medial and lateral condyles
intermediate cuneiform	middle of the three cuneiform tarsal bones; articulates posteriorly with the navicular bone, medially with the medial cuneiform bone, laterally with the lateral cuneiform bone, and anteriorly with the second metatarsal bone
interosseous border of the fibula	small ridge running down the medial side of the fibular shaft; for attachment of the interosseous membrane between the fibula and tibia
interosseous border of the radius	narrow ridge located on the medial side of the radial shaft; for attachment of the interosseous membrane between the ulna and radius bones

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	between the una and radius bones
interosseous border of the tibia	small ridge running down the lateral side of the tibial shaft; for attachment of the interosseous membrane between the tibia and fibula
interosseous border of the ulna	narrow ridge located on the lateral side of the ulnar shaft; for attachment of the interosseous membrane between the ulna and radius
interosseous membrane of the forearm	sheet of dense connective tissue that unites the radius and ulna bones
interosseous membrane of the leg	sheet of dense connective tissue that unites the shafts of the tibia and fibula bones
interphalangeal joint	articulation between adjacent phalanx bones of the hand or foot digits
intertrochanteric crest	short, prominent ridge running between the greater and lesser trochanters on the posterior side of the proximal femur
intertrochanteric line	small ridge running between the greater and lesser trochanters on the anterior side of the proximal femur
intertubercular groove	(sulcus) bicipital groove; narrow groove located between the greater and lesser tubercles of the humerus
ischial ramus	bony extension projecting anteriorly and superiorly from the ischial tuberosity; joins with the inferior pubic ramus to form the ischiopubic ramus
ischial spine	pointed, bony projection from the posterior margin of the ischium that separates the greater sciatic notch and lesser sciatic notch
ischial tuberosity	large, roughened protuberance that forms the posteroinferior portion of the hip bone; weight-bearing region of the pelvis when sitting
ischiopubic ramus	narrow extension of bone that connects the ischial tuberosity to the pubic body; formed by the junction of the ischial ramus and inferior pubic ramus
ischium	posteroinferior portion of the hip bone
knee joint	joint that separates the thigh and leg portions of the lower limb; formed by the articulations between the medial and lateral condyles of the femur, and the medial and lateral condyles of the tibia

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lateral border of the scapula	diagonally oriented lateral margin of the scapula
lateral condyle of the femur	smooth, articulating surface that forms the distal and posterior sides of the lateral expansion of the distal femur
lateral condyle of the tibia	lateral, expanded region of the proximal tibia that includes the smooth surface that articulates with the lateral condyle of the femur as part of the knee joint
lateral cuneiform	most lateral of the three cuneiform tarsal bones; articulates posteriorly with the navicular bone, medially with the intermediate cuneiform bone, laterally with the cuboid bone, and anteriorly with the third metatarsal bone
lateral epicondyle of the femur	roughened area of the femur located on the lateral side of the lateral condyle
lateral epicondyle of the humerus	small projection located on the lateral side of the distal humerus
lateral malleolus	expanded distal end of the fibula
lateral supracondylar ridge	narrow, bony ridge located along the lateral side of the distal humerus, superior to the lateral epicondyle
leg	portion of the lower limb located between the knee and ankle joints
lesser pelvis	(also, lesser pelvic cavity or true pelvis) narrow space located within the pelvis, defined superiorly by the pelvic brim (pelvic inlet) and inferiorly by the pelvic outlet
lesser sciatic foramen	pelvic opening formed by the lesser sciatic notch of the hip bone, the sacrospinous ligament, and the sacrotuberous ligament
lesser sciatic notch	shallow indentation along the posterior margin of the ischium, inferior to the ischial spine
lesser trochanter	small, bony projection on the medial side of the proximal femur, at the base of the femoral neck
lesser tubercle	small, bony prominence located on anterior side of the proximal humerus
ligament of the head of the femur	ligament that spans the acetabulum of the hip bone and the fovea capitis of the femoral head
limb bud	small elevation that appears on the lateral side of the embryo during the fourth or fifth week of

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	embryo during the fourth or fifth week of development, which gives rise to an upper or lower limb
linea aspera	longitudinally running bony ridge located in the middle third of the posterior femur
lunate	from the lateral side, the second of the four proximal carpal bones; articulates with the radius proximally, the capitate and hamate distally, the scaphoid laterally, and the triquetrum medially
medial border of the scapula	elongated, medial margin of the scapula
medial condyle of the femur	smooth, articulating surface that forms the distal and posterior sides of the medial expansion of the distal femur
medial condyle of the tibia	medial, expanded region of the proximal tibia that includes the smooth surface that articulates with the medial condyle of the femur as part of the knee joint
medial cuneiform	most medial of the three cuneiform tarsal bones; articulates posteriorly with the navicular bone, laterally with the intermediate cuneiform bone, and anteriorly with the first and second metatarsal bones
medial epicondyle of the femur	roughened area of the distal femur located on the medial side of the medial condyle
medial epicondyle of the humerus	enlarged projection located on the medial side of the distal humerus
medial malleolus	bony expansion located on the medial side of the distal tibia
metacarpal bone	one of the five long bones that form the palm of the hand; numbered 15, starting on the lateral (thumb) side of the hand
metacarpophalangeal joint	articulation between the distal end of a metacarpal bone of the hand and a proximal phalanx bone of the thumb or a finger
metatarsal bone	one of the five elongated bones that forms the anterior half of the foot; numbered 15, starting on the medial side of the foot
metatarsophalangeal joint	articulation between a metatarsal bone of the foot and the proximal phalanx bone of a toe
midcarpal joint	articulation between the proximal and distal rows of the carpal bones; contributes to movements of the hand at the wrist

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navicular tarsal	bone that articulates posteriorly with the talus bone, laterally with the cuboid bone, and anteriorly with the medial, intermediate, and lateral cuneiform bones
neck of the femur	narrowed region located inferior to the head of the femur
neck of the radius	narrowed region immediately distal to the head of the radius
obturator foramen	large opening located in the anterior hip bone, between the pubis and ischium regions
olecranon fossa	large depression located on the posterior side of the distal humerus; this space receives the olecranon process of the ulna when the elbow is fully extended
olecranon process	expanded posterior and superior portions of the proximal ulna; forms the bony tip of the elbow
patella	kneecap; the largest sesamoid bone of the body; articulates with the distal femur
patellar surface	smooth groove located on the anterior side of the distal femur, between the medial and lateral condyles; site of articulation for the patella
pectineal line	narrow ridge located on the superior surface of the superior pubic ramus
pectoral girdle	shoulder girdle; the set of bones, consisting of the scapula and clavicle, which attaches each upper limb to the axial skeleton
<u>pelvic brim</u>	pelvic inlet; the dividing line between the greater and lesser pelvic regions; formed by the superior margin of the pubic symphysis, the pectineal lines of each pubis, the arcuate lines of each ilium, and the sacral promontory
pelvic girdle	hip girdle; consists of a single hip bone, which attaches a lower limb to the sacrum of the axial skeleton
pelvic inlet	pelvic brim
pelvic outlet	inferior opening of the lesser pelvis; formed by the inferior margin of the pubic symphysis, right and left ischiopubic rami and sacrotuberous ligaments, and the tip of the coccyx
pelvis	ring of bone consisting of the right and left hip bones, the sacrum, and the coccyx

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phalanx bone of the foot	(plural: phalanges) one of the 14 bones that form the toes; these include the proximal and distal phalanges of the big toe, and the proximal, middle, and distal phalanx bones of toes two through five
phalanx bone of the hand	(plural: phalanges) one of the 14 bones that form the thumb and fingers; these include the proximal and distal phalanges of the thumb, and the proximal, middle, and distal phalanx bones of the fingers two through five
pisiform	from the lateral side, the fourth of the four proximal carpal bones; articulates with the anterior surface of the triquetrum
pollex	(also, thumb) digit 1 of the hand
posterior inferior iliac spine	small, bony projection located at the inferior margin of the auricular surface on the posterior ilium
posterior sacroiliac ligament	strong ligament spanning the sacrum and ilium of the hip bone that supports the posterior side of the sacroiliac joint
posterior superior iliac spine	rounded, posterior end of the iliac crest
proximal radioulnar joint	articulation formed by the radial notch of the ulna and the head of the radius
proximal tibiofibular joint	articulation between the head of the fibula and the inferior aspect of the lateral condyle of the tibia
pubic arch	bony structure formed by the pubic symphysis, and the bodies and inferior pubic rami of the right and left pubic bones
pubic body	enlarged, medial portion of the pubis region of the hip bone
pubic symphysis	joint formed by the articulation between the pubic bodies of the right and left hip bones
pubic tubercle	small bump located on the superior aspect of the pubic body
pubis	anterior portion of the hip bone
radial fossa	small depression located on the anterior humerus above the capitulum; this space receives the head of the radius when the elbow is maximally flexed
radial notch of the ulna	small, smooth area on the lateral side of the proximal ulna; articulates with the head of the radius

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	ulna; articulates with the head of the radius as part of the proximal radioulnar joint
radial tuberosity	oval-shaped, roughened protuberance located on the medial side of the proximal radius
radiocarpal joint	wrist joint, located between the forearm and hand regions of the upper limb; articulation formed proximally by the distal end of the radius and the fibrocartilaginous pad that unites the distal radius and ulna bone, and distally by the scaphoid, lunate, and triquetrum carpal bones
radius	bone located on the lateral side of the forearm
sacroiliac joint	joint formed by the articulation between the auricular surfaces of the sacrum and ilium
sacrospinous ligament	ligament that spans the sacrum to the ischial spine of the hip bone
sacrotuberous ligament	ligament that spans the sacrum to the ischial tuberosity of the hip bone
scaphoid	from the lateral side, the first of the four proximal carpal bones; articulates with the radius proximally, the trapezoid, trapezium, and capitate distally, and the lunate medially
scapula	shoulder blade bone located on the posterior side of the shoulder
shaft of the femur	cylindrically shaped region that forms the central portion of the femur
shaft of the fibula	elongated, slender portion located between the expanded ends of the fibula
shaft of the humerus	narrow, elongated, central region of the humerus
shaft of the radius	narrow, elongated, central region of the radius
shaft of the tibia	triangular-shaped, central portion of the tibia
shaft of the ulna	narrow, elongated, central region of the ulna
soleal line	small, diagonally running ridge located on the posterior side of the proximal tibia
spine of the scapula	prominent ridge passing mediolaterally across the upper portion of the posterior scapular surface

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sternal end of the clavicle	medial end of the clavicle that articulates with the manubrium of the sternum
sternoclavicular joint	articulation between the manubrium of the sternum and the sternal end of the clavicle; forms the only bony attachment between the pectoral girdle of the upper limb and the axial skeleton
styloid process of the radius	pointed projection located on the lateral end of the distal radius
styloid process of the ulna	short, bony projection located on the medial end of the distal ulna
subpubic angle	inverted V-shape formed by the convergence of the right and left ischiopubic rami; this angle is greater than 80 degrees in females and less than 70 degrees in males
subscapular fossa	broad depression located on the anterior (deep) surface of the scapula
superior angle of the scapula	corner of the scapula between the superior and medial borders of the scapula
superior border of the scapula	superior margin of the scapula
superior pubic ramus	narrow segment of bone that passes laterally from the pubic body to join the ilium
supraglenoid tubercle	small bump located at the superior margin of the glenoid cavity
suprascapular notch	small notch located along the superior border of the scapula, medial to the coracoid process
supraspinous fossa	narrow depression located on the posterior scapula, superior to the spine
surgical neck	region of the humerus where the expanded, proximal end joins with the narrower shaft
sustentaculum tali	bony ledge extending from the medial side of the calcaneus bone
talus	tarsal bone that articulates superiorly with the tibia and fibula at the ankle joint; also articulates inferiorly with the calcaneus bone and anteriorly with the navicular bone
tarsal bone	one of the seven bones that make up the posterior foot; includes the calcaneus, talus, navicular, cuboid, medial cuneiform, intermediate cuneiform, and

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	cuboid, medial cuneiform, intermediate cuneiform, and lateral cuneiform bones
thigh	portion of the lower limb located between the hip and knee joints
tibial tuberosity	elevated area on the anterior surface of the proximal tibia
tibia	shin bone; the large, weight-bearing bone located on the medial side of the leg
trapezium	from the lateral side, the first of the four distal carpal bones; articulates with the scaphoid proximally, the first and second metacarpals distally, and the trapezoid medially
trapezoid	from the lateral side, the second of the four distal carpal bones; articulates with the scaphoid proximally, the second metacarpal distally, the trapezium laterally, and the capitate medially
triquetrum	from the lateral side, the third of the four proximal carpal bones; articulates with the lunate laterally, the hamate distally, and has a facet for the pisiform
trochlear notch	large, C-shaped depression located on the anterior side of the proximal ulna; articulates at the elbow with the trochlea of the humerus
trochlea	pulley-shaped region located medially at the distal end of the humerus; articulates at the elbow with the trochlear notch of the ulna
ulnar notch of the radius	shallow, smooth area located on the medial side of the distal radius; articulates with the head of the ulna at the distal radioulnar joint
ulnar tuberosity	roughened area located on the anterior, proximal ulna inferior to the coronoid process
ulna	bone located on the medial side of the forearm