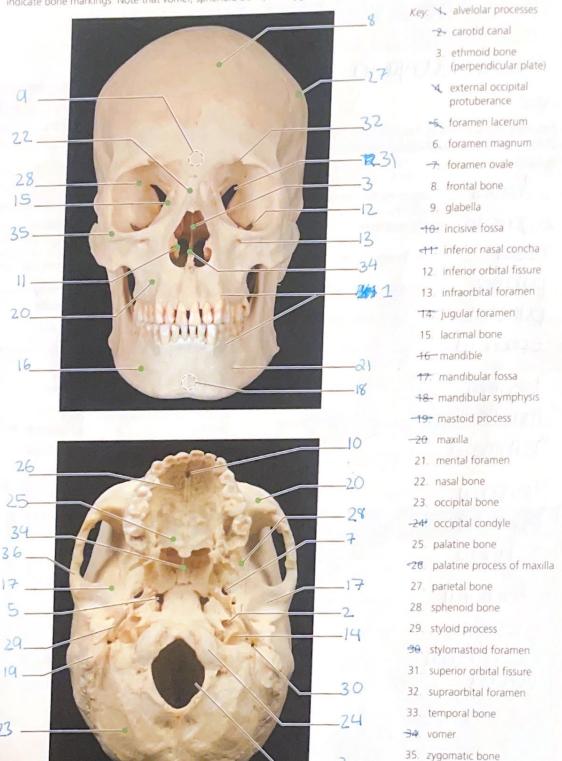
## **REVIEW SHEET** The Axial Skeleton

Name <u>Origina moduniania</u>	Lab Time/Date	
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## The Skull

Column A			Colum	in B
frontal	1.	forms the anterior cranium		ethmoid
zygomatic	2.	cheekbone		frontal
nasa)	3.	bridge of nose	-d-	inferior nasal concha
palatine	4.	posterior bones of the hard palate	e. f.	lacrimal mandible
parietal	5.	much of the lateral and superior cranium		maxilla
Sphenoid	6.	single, irregular, bat-shaped bone forming part of the cranial base		nasal occipital
lacrimal	7.	tiny bones bearing tear ducts		palatine parietal
maxilla	8.	anterior part of hard palate	+	sphenoid
ethmoid	9.	superior and middle nasal conchae form from its projections		temporal vomer
temporal	10.	site of mastoid process	0	zygomatic
occipital	11.	has condyles that articulate with the atlas		
hypid	12.	small U-shaped bone in neck, where many tongue muscles attach		
temporal	13.	organ of hearing found here		
vomer	14.	two bones that form the nasal septum		
nferior hasal concha	15.	forms the most inferior turbinate		

Using choices from the numbered key to the right, identify all bones and bone markings provided with various leader lines in the two following photographs. A colored dot at the end of a leader line indicates a bone. Leader lines without a colored dot indicate bone markings. Note that vomer, sphenoid bone, and zygomatic bone will each be labeled twice.



36. zygomatic process

10. The di	istinguishing chara bed structure by ch	cteristics of the ver- oosing a response f	tebrae composing rom the key.	the vertebral colum	n are noted below. Correctly ide
Key:		as tunical	coccyx lumbar verteb		sacrum thoracic vertebra
	C	vertebra type     ies ascend to	each the branch		processes, through which the verte
	b	2. dens here pro	vides a pivot for ro	tation of the first ce	rvical vertebra (C <sub>1</sub> )
	9	transverse prodownward	cesses faceted fo	or articulation with	ribs; spinous process pointing
	t		e; articulates with	the hip bone lateral	ly
	e	5. massive verteb	ra, weight-sustainii	ng	
	d	6. "tail bone" fus			
	a	7. supports the he	ad, allows a rockir	ng motion in conjun	ction with the occipital condyles
11. Using th	ne key, correctly idea key letters to correc	ntify the vertebral pa ctly identify the verte	ebral areas in the d	l below. (More than liagram.	one choice may apply in some cas g transverse process
	<u>1</u>	cavity enclosing		ebra	ne M
e	a 2 - 9 3	weight-bearing	the spinal cord portion of the verti ainst which muscl	(	ne M
e	1 1 2 2	weight-bearing provide levers ag	portion of the verte	es pull d	ne The The terms of the terms o
e	1 2 2 3 4 b 5.	weight-bearing provide levers ag	portion of the verti	es pull d	ne The second se
e g h	a 2 - 9 3 - 4 - 5	weight-bearing provide levers ag	portion of the vertical ainst which muscle lation point for the ang for exit of spina	es pull de ribs	
e g h	Q 2 - 9 3 - f 4 - b 5.	provide levers ag provide an articu openings providir	portion of the verte ainst which muscle lation point for the ang for exit of spina rm an enclosure for	e ribs Il nerves or the spinal cord	
e g h	Q 2 - 9 3 - f 4 - b 5.	provide levers ag provide an articu openings providir structures that fo	portion of the verte ainst which muscle lation point for the ang for exit of spina rm an enclosure for	e ribs Il nerves or the spinal cord	
e g h d	2 2 3 4 4 5 5.	provide levers ag provide an articu openings providi structures that for structures that for	portion of the verte lation point for the ing for exit of spina irm an enclosure for irm the vertebral ar	er ibs Il nerves or the spinal cord	xit the vertebral
	9 3 4 b 5	provide levers ag provide an articu openings providir structures that for structures the structures that structures the structures the structures that structures the structures that structures the structures that structures the structures that structures the structures the structures that structures the structures the structures the structures that structures the structures the structures the structures that structures the	portion of the verteral ainst which muscle lation point for the lation point for the lation point for the lation point for the lation point for exit of spinarm an enclosure form the vertebral are the vertebral are lational column.	e ribs Il nerves or the spinal cord och	xit the vertebral enter the spin enter the spinal cord

15. What is a herniated disc? a disc in which the nucleus perputosus herniates through the annulus What problems might it cause? The nucleus pulposus compresses on the Spirol cord leading to pain possible paralysis

16. Which two spinal curvatures are obvious at birth? Concave formed and thoracic and Scora Spine

Under what conditions do the secondary curvatures develop? OCCURS with normal development.

Cervical curvature. which develops first with infant head lifting.

and the lumbar curvature, which develops next sitting up. these prepare for the spices.

17. Use the key to label the structures on the thoracic region of the vertebral column. Spin for ambulation

Key: a. intervertebral discs

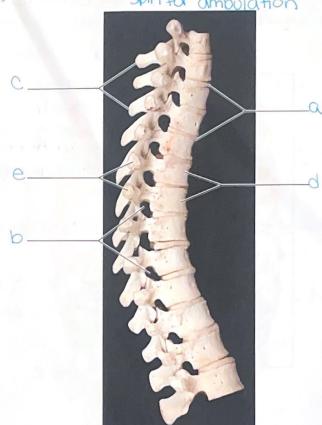
intervertebral foramina

spinous prosesses

thoracic vertebrae

rrrrrr

transverse processes

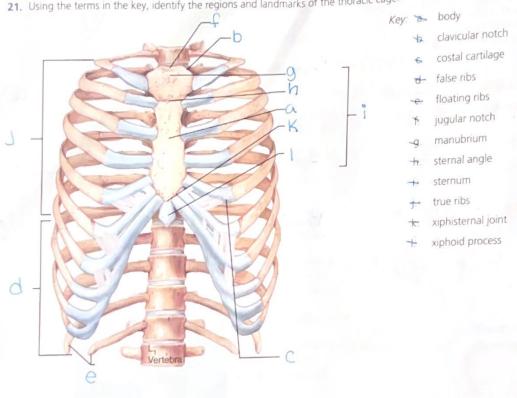


### The Thoracic Cage

- and the Sternum
- 19. Differentiate between a true rib and a false rib. the top seven poirs of ribs are connected to your sternumuwhich are considered true ribs. the last three pairs of ribs are known as false ribs.

Is a floating rib a true or a false rib? false ribs

- 20. What is the general shape of the thoracic cage? Conical Shape.
- 21. Using the terms in the key, identify the regions and landmarks of the thoracic cage.



- 22. Are the same skull bones seen in the adult also found in the fetal skull? No, some areas are still remained

  +0 be converted to bone.

  23. How does to
- TO DQ CONVEYTED to bone.

  23. How does the size of the fetal face compare to its cranium? <u>face</u> is <u>foreshortened</u>, overshadowed by the large cranium. maxilla and manathete mandible are very tiny. How does this compare to the adult skull? The Cranium is proportionately smaller and the facial bones are proportionately larger and more
- 24. What are the outward conical projections on some of the fetal cranial bones? Hose are ossification (growth) centers.
- bones to overlop during birth and also allowfor growth of the brain.

  What is its fate? SOCL SOCI Amendment of the brain.
- Completed by the age of 2.

  What is the first of 2.

What is the function of the fontanelles in the fetal skull? allows the head to mold to fit

through the birth canal and allow for brain growth.

26. Craniosynostosis is a condition in which one or more of the fontanelles is replaced by bone prematurely. Discuss the ramifications of this party starting fications of this early closure.

it can complicate brain development.

しししししししししし

- 27. As we age, we often become shorter. Explain why this might occur. because the intervertebral discs conten. flaten.
- 28. The xiphoid process is often missing from the sternum in bone collections. Hypothesize why it might be missing. \_\_\_\_ they can break apart.

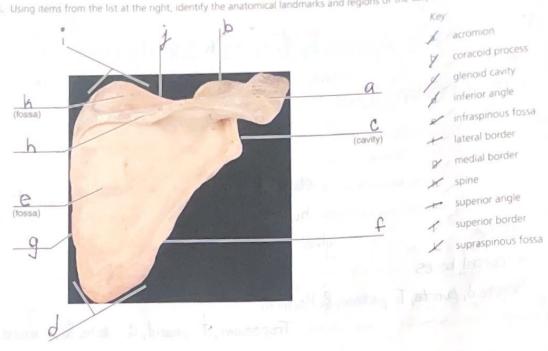


# REVIEW SHEET The Appendicular Skeleton

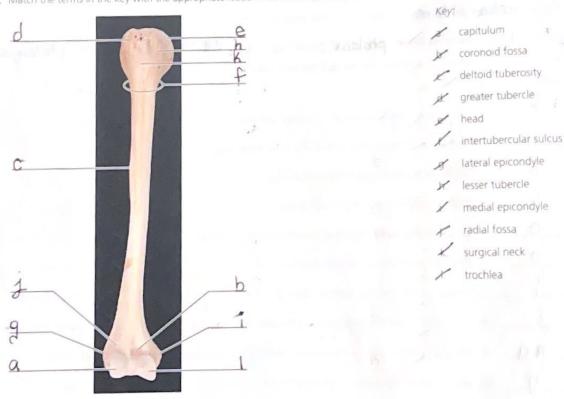
Name Or pr	a Modunianin Lab Time/Date	
	Pectoral Girdle and Upper Limb k to complete the statements below:	
a. The bone	s that form the pectoral girdle are the Quick Clavicle are	d Scapula
	er limb is formed by the arm bone, the humerus and Ulna	nd the two bones of the forearm, the
c. The _Co	are the wrist bones. List the proximal row of wrist bone	s from lateral to medial:
	hoid, Lunate, Triquetrun, & Pisiform	
	row of wrist bones from lateral to medial: Trapezium, Trapezoi	d, Capitate, & Hamate
e. A single	finger bone's called a phalanx. Each hand has 14 to the markings in column B with the descriptions in column A.	
£		
	depression in the scapula that articulates with the humerus	A. acromion
_ K	2. surface on the radius that receives the head of the ulna	capitulum
_ b	3. lateral rounded knob on the distal humerus	coracoid process
_ h	4. posterior depression on the distal humerus	d. coronoid fossa
_ e	5. a roughened area on the lateral humerus: deltoid attachment site	deltoid tuberosity
C	6. hooklike process; biceps brachii attachment site	
<u> </u>	7. surface on the ulna that receives the head of the radius	medial epicondyle
-1	8. medial condyle of the humerus that articulates with the ulna	X. olecranon fossa
<b>a</b> a	9. lateral end of the spine of the scapula; clavicle articulation site	radial notch
9	10. small bump on the humerus, often called the "funny bone"	* trochlea
	11. anterior depression, superior to the trochlea, that receives part of the ulna when bending at the elbow	✓ ulnar notch

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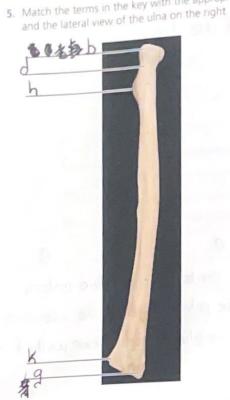
3. Using items from the list at the right, identify the anatomical landmarks and regions of the scapula.

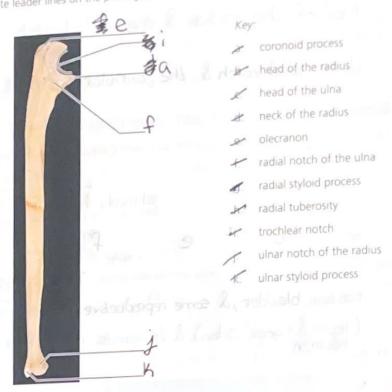


4. Match the terms in the key with the appropriate leader lines on the photograph of the humerus.

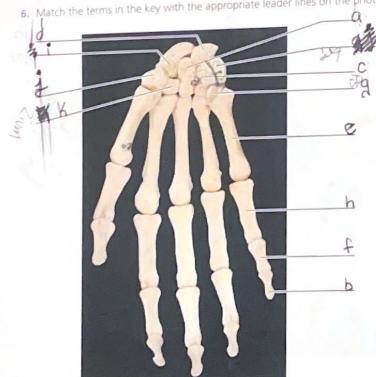


5. Match the terms in the key with the appropriate leader lines on the photographs of the posterior view of the radius on the left





6. Match the terms in the key with the appropriate leader lines on the photograph of the anterior view of the hand.



capitate
distal phalanx
hamate
lunate
metacarpal
middle phalanx
g pisiform
proximal phalanx
scaphoid
trapezium
k trapezoid
triquetrum

7. Name the two bone markings that form the proximal radioulnar joint.

## head of the radius & the radial notch of the ulna

8. Name the two bone markings that form the distal radioulnar joint

## unar radial notch & the annular ligament

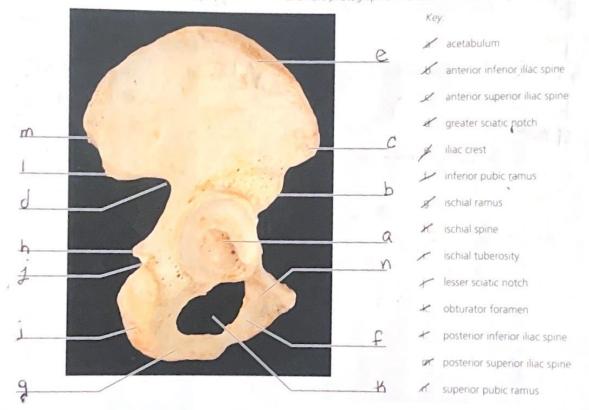
## Bones of the Pelvic Girdle and Lower Limb

9. Compare the pectoral and pelvic girdles by choosing appropriate descriptive terms from the key

Key: >	flexibility most important		insecure axial and l		
b.	massive		secure axial and lim		
1	lightweight		weight-bearing mo		
Pertoral	h a	0	_	_]	Λ

10. Distinguish between the true pelvis and the false pelvis. True pelvis contains the pelvic colon, rectum, bladder, & some reproductive organs. False pelvis supports the intestines, (ileum, & sigmoid, colon), & transmits part of their weight to the anterior wall of the abdomen.

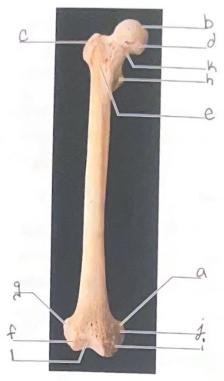
11. Match the terms in the key with the appropriate leader lines on the photograph of the lateral view of the hip bone.



12. Match the bone names and markings in column B with the descriptions in column A. The items in column B may be used more

atch the bone names on an once.	and markings in column b Will be	Col	umn B
			acetabulum
olumn A	L and	a.	accianami
0		b.	calcaneus
	1. fuse to form the hip bone		
5	hady weight when sitting	C.	fernur
i	2. rough projection that supports body weight when sitting		fibula
7	3. point where the hip bones join anteriorly	d.	Tipula
(		e.	gluteal tuberosity
1	4. superiormost margin of the hip bone		
n	4 Superior the head	f.	greater and lesser
a	5. deep socket in the hip bone that receives the head		trochanters
<u> </u>	of the thigh bone		greater sciatic notch
	6. joint between axial skeleton and pelvic girdle	g	greater school
t		h.	iliac crest
0	7. longest, strongest bone in body		
C		1.	ilium
9	8 thin, lateral leg bone		ischial tuberosity
-	9. permits passage of the sciatic nerve	1	ISCNIAI TUDETOSITY
9		k.	ischium
m	10. notch located inferior to the ischial spine		
		,	lateral malleolus
X	11. point where the patellar ligament attaches		lesser sciatic notch
0	12 kneecap	m.	lesser sciatic noteri
7	12 Kilecop	n.	medial malleolus
A W	13. shinbone		
1 40 40 40	and a land a projection	0.	metatarsals
n	14. medial ankle projection		obturator foramen
	15. lateral ankle projection	p.	ODIGITATOR TOTALITETS
1		q.	patella
b	16. largest tarsal bone		
V	17. ankle bones	r.	pubic symphysis
		S.	pubis
0	18. bones forming the instep of the foot	3.	pubis
	19. opening in hip bone formed by the pubic and ischial ram	ni t.	sacroiliac joint
- P			
e	and the Erachates 20 sites of muscle attachment	t on U.	talus
	the proximal femur	V.	tarsals
	21. tarsal bone that "sits" on the calcaneus		
1.1	and the same of th		tibia
U		W.	C10710
U W	22. weight-bearing bone of the leg		
 ω	22. weight-bearing bone of the leg 23. tarsal bone that articulates with the tibia	W.	tibial tuberosity

13. Match the terms in the key with the appropriate leader lines on the photograph of the anterior view of the femur.



Key:

adductor tubercle

by fovea capitis

greater trochanter

de head

intertrochanteric line

/ lateral condyle

lateral epicondyle

lesser trochanter

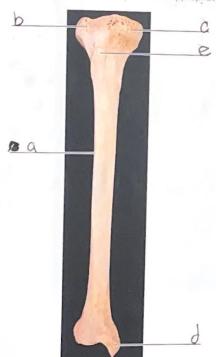
medial condyle

medial epicondyle

+ neck

patellar surface

14. Match the terms in the key with the appropriate leader lines on the photograph of the anterior view of the tibia



Kov

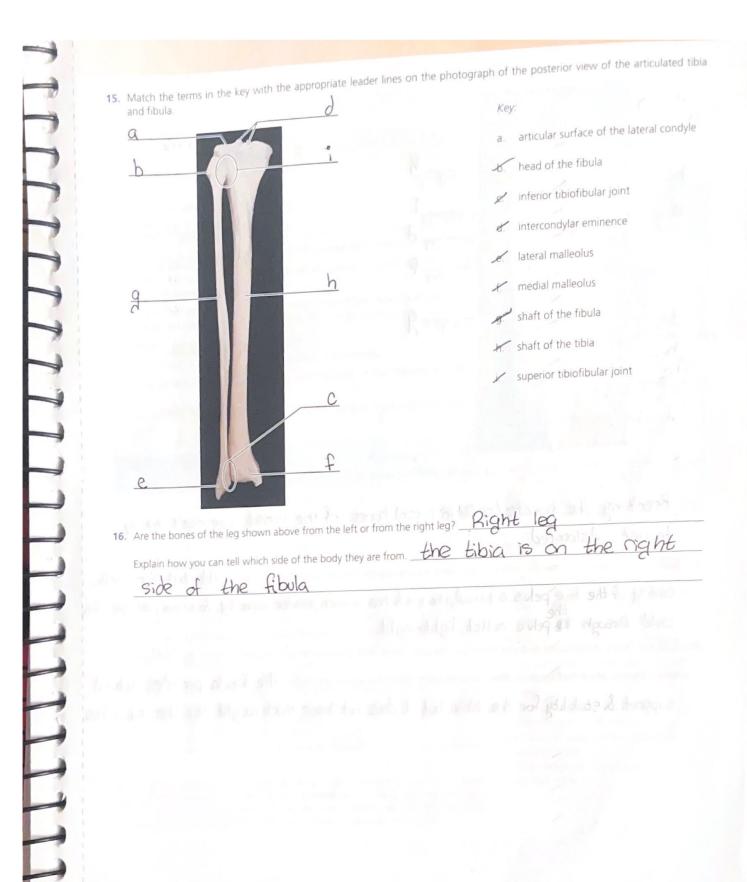
anterior border

b. lateral condyle

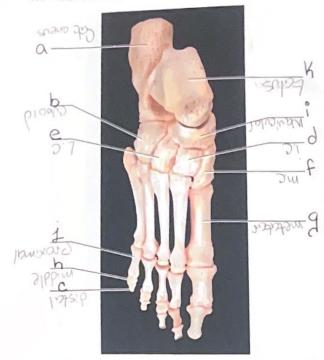
e medial condyle

medial malleolus

e tibial tuberosity



17. Match the terms in the key with the appropriate leader lines on the photograph of the superior view of the articulated foot



- a. calcaneus
- b. cuboid
- distal phalanx

  dintermediate cuneiform
- lateral cuneiform

994444666

W.

W

(V)

D

W

- medial cuneiform
- metatarsal
- middle phalanx
- navicular
- proximal phalanx
- talus

18. FOOSH is an acronym that stands for Fall on Outstretched Hand. Discuss possible fractures and dislocations that might occur with an injury of this type.

Breaking the hamate/pisform carpal bones of the wrist are most likely to get dislocated.

- 19. Describe some of the features of the female pelvis that provide for compatibility with vaginal birth. Adapted for birth, Cavity of the true pelvis is broad, shallow, & has a much greater capacity to allow passage of a child through the pelvic outlet, lightweight
- 20. Your X-ray exam reveals that you have fractured your fibula. Your physician remarks, "Well, it's better than breaking your tibia." Explain why a fracture of the tibia would be worse than a fracture of the fibula. The fibula provides lateral support & stability for the tibia but it does not bear much weight like the tibia does