Laboratory Report 13

Name	
Date	
Section	

THE SKULL

PART A

Ma	tch the bones in column	A with the features in column B. Place the letter of your choice in the space provided.				
Column A Column B						
a. b. c. d. e. f.	Ethmoid bone Frontal bone Occipital bone Parietal bone Sphenoid bone Temporal bone	1. Forms sagittal, coronal, squamosal, and lambdoidal sutures 2. Cribriform plate 3. Crista galli 4. External auditory meatus 5. Foramen magnum 6. Mandibular fossa 7. Mastoid process 8. Middle nasal concha 9. Occipital condyle 10. Sella turcica 11. Styloid process 12. Supraorbital foramen				
PA	RT B					
	nplete the following sta					
1.	The	suture joins the frontal bone to the parietal bones.				
		fused along the midline by the suture.				
3.	The	suture joins the parietal bones to the occipital bone.				
	. The temporal bones are joined to the parietal bones along the sutures.					
	. Name the three cranial bones that contain sinuses					
6.	Name a facial bone that	contains a sinus.				

PART C

Match the bones in column A with the characteristics in column B. Place the letter of your choice in the space provided.

Column A	Column B
 a. Inferior nasal concha b. Lacrimal bone c. Mandible d. Maxillary bone e. Nasal bone f. Palatine bone g. Vomer bone h. Zygomatic bone 	 Forms bridge of nose Only movable bone in facial skeleton Contains coronoid process Creates prominence of cheek inferior and lateral to the eye Contains sockets of upper teeth Forms inferior portion of nasal septum in back Forms anterior portion of zygomatic arch Scroll-shaped bone Forms anterior roof of mouth Forms posterior roof of mouth Scalelike part in medial wall of orbit
PART C	the characteristics in column B. Place the letter of your choice in the space provided.
Column A	Column B
a. Inferior nasal concha b. Lacrimal bone c. Mandible d. Maxillary bone e. Nasal bone f. Palatine bone g. Vomer bone h. Zygomatic bone	 Forms bridge of nose Only movable bone in facial skeleton Contains coronoid process Creates prominence of cheek inferior and lateral to the eye Contains sockets of upper teeth Forms inferior portion of nasal septum in back Forms anterior portion of zygomatic arch Scroll-shaped bone Forms anterior roof of mouth

_____10. Forms posterior roof of mouth

_____11. Scalelike part in medial wall of orbit

Figure 13.1 Label the anterior bones and features of the skull. (If the line lacks the word bone, label the particular feature of that bone.)

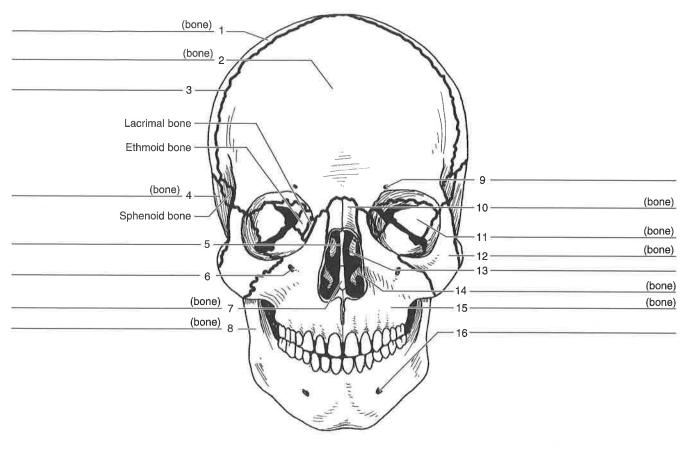
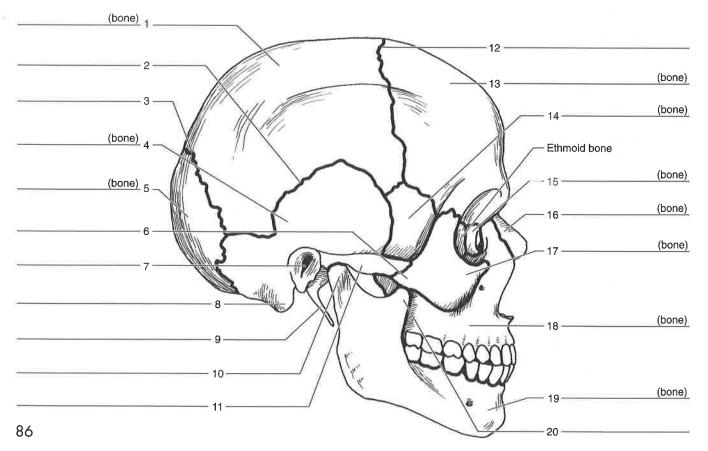


Figure 13.2 Label the lateral bones and features of the skull.



Laboratory Report 14

Name		
Date		
Section		

VERTEBRAL COLUMN AND THORACIC CAGE

PART A										
Complete the f	following statements:									
1. The verteb	ral column encloses a	nd protects the								
	The vertebral column encloses and protects the of the vertebrae support the weight of the head and trunk.									
			_ separate adjacent vertebrae.							
4. The pedicl	es, laminae, and spino	ous process of a	of a vertebra form the							
	ertebral foramina prov									
6. Transverse foramina of cervical vertebrae serve as passageways for										
leading to	the brain.									
7. The first ve	7. The first vertebra is also called the									
	head is moved from s									
of the seco	nd vertebra.									
9. The			vertebrae have the	largest and stronges	st bodies.					
	er of vertebrae that fus									
11. An opening	g called the	4.1		exists at the tip of th	e sacral canal.					
PART B										
Based on your indicated in the		e typical cervic	al, thoracic, and l	umbar vertebrae in r	relation to the characteristics					
Vertebra	Number	Size	Body	Spinous Process	Transverse Foramina					
Cervical										
Thoracic										
Lumbar			*							

Figure 14.1 Label the bones and features of the vertebral column.

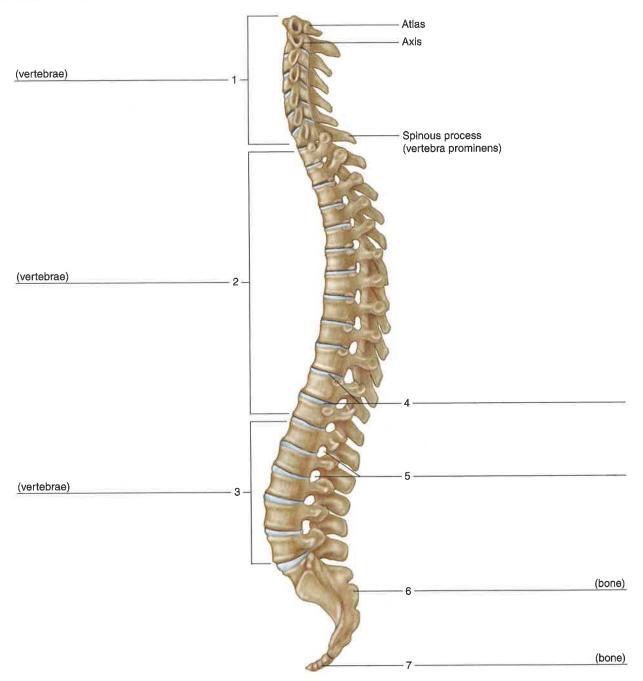
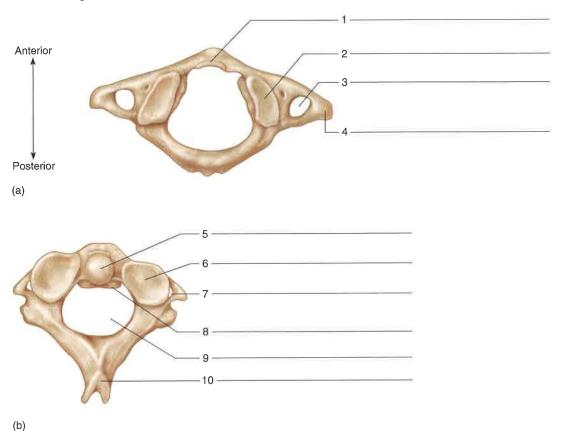


Figure 14.2 Label the superior features of (a) the atlas and (b) the axis.



5. Examine the sacrum and coccyx. Locate the following features:

sacrum

superior articular process

dorsal sacral foramen

pelvic sacral foramen

sacral canal

tubercles

sacral hiatus

coccyx

6. Complete Parts A and B of Laboratory Report 14.

PROCEDURE B—THE THORACIC CAGE

- 1. Review the section entitled "Thoracic Cage" in chapter 7 of the textbook.
- 2. As a review activity, label figure 14.5.

3. Examine the thoracic cage of the human skeleton and locate the following bones and features:

rib

head

tubercle

facets

true ribs

false ribs

floating ribs

costal cartilages

sternum

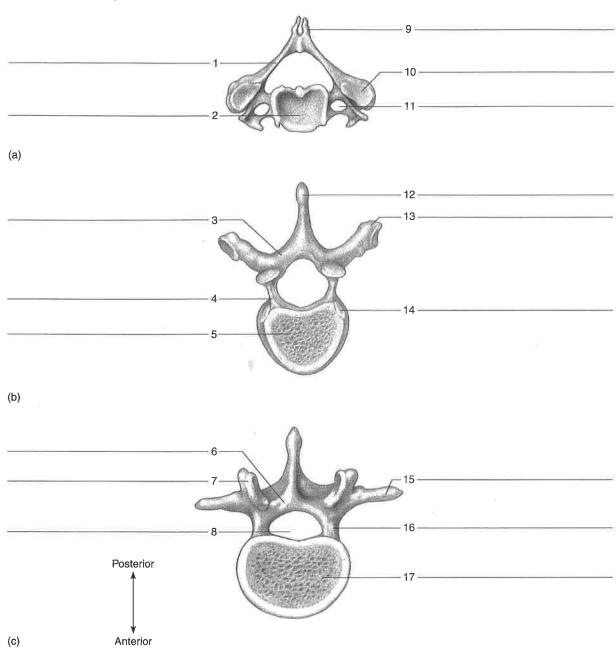
manubrium

body

xiphoid process

4. Complete Parts C and D of the laboratory report.

Figure 14.3 Label the superior features of the (a) cervical, (b) thoracic, and (c) lumbar vertebrae.

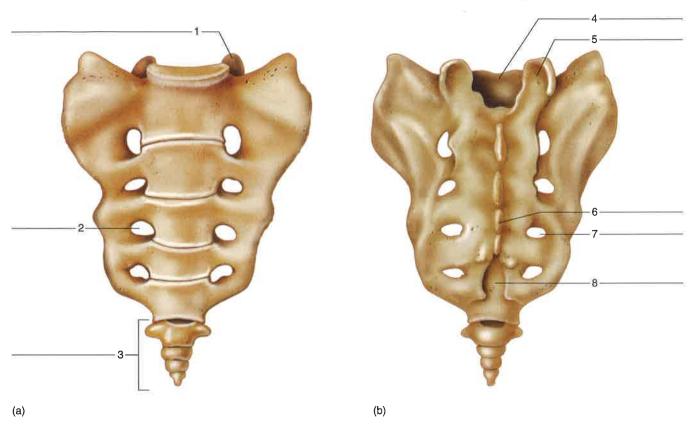




What are the functions of individual bones and features? Search these and review the anatomy of the skeleton at

www.mhhe.com/shieress8

Figure 14.4 Label the coccyx and the features of the sacrum: (a) anterior view; (b) posterior view.



Sternal notch
Sternal angle

(ribs)

(ribs)

(ribs)

(ribs)

(ribs)

(ribs)

(ribs)

(ribs)

(ribs)

12