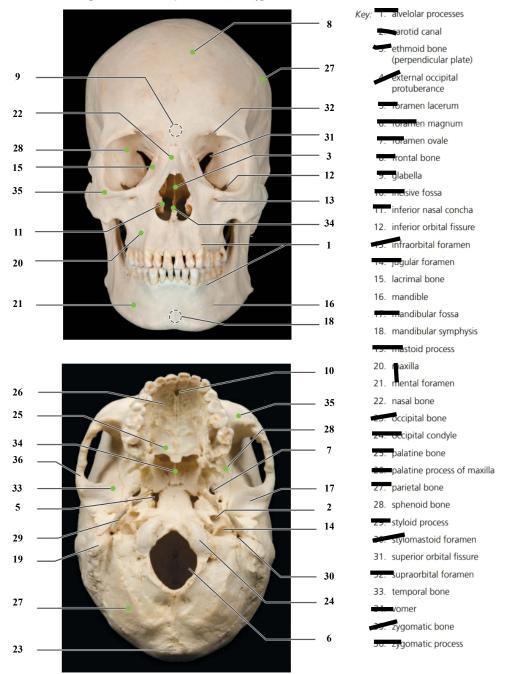




lame	Trevoi	wright	Lab Time/Date		
he Skull					
		in column B with the descriptions in unn B that are cranial bones.	n column A (the items in colur	nn B may be	e used more than once).
Column A				Colum	ın B
b		1. forms the anterior cranium		a.	ethmoid
0		2. cheekbone		b.	frontal
g		bridge of nose		C.	hyoid inferior nasal concha
j				d. e.	lacrimal
		posterior bones of the hard pala	ate	f.	mandible
k		5. much of the lateral and superior	r cranium	g.	maxilla
1		6. single, irregular, bat-shaped bor	ne forming part	h.	nasal
		of the cranial base		i.	occipital
e		7. tiny bones bearing tear ducts		j.	palatine
g		anterior part of hard palate		k.	parietal
		o. anterior part of hard palate		I.	sphenoid
a		superior and middle nasal conclusions	nae form from	m.	temporal
		its projections		n.	vomer
m	<u> </u>	site of mastoid process		0.	zygomatic
i	1	has condyles that articulate with	n the atlas		
c		•			
	1	small U-shaped bone in neck, w tongue muscles attach	nere many		
c		organ of hearing found here			
a		two bones that form the nasal s	sentum		
		a. the somes that form the hasars	- prom		
d	1	5. forms the most inferior turbinat	e		

2. 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.



3.	Define suture A fib	rous joint between skull bones	i .						
4.	. With one exception, the skull bones are joined by sutures. Name the exception.								
	Joint(s) between the mandible and temporal bones.								
5.	What bones are connected by	y the lambdoid suture?							
		occipital and parietal							
	What bones are connected by	y the squamous suture?							
	temporal and								
6.	Name the eight bones of the	cranium. (Remember to include le	eft and right.)						
	frontal	occipital	right parietal	left parietal					
	sphenoid	ethmoid	right temporal	left temporal					
7.	List the bones that have sinus	ses, and give two possible function	ns of the sinuses.						
	The frontal bone, the maxilla, the sphenoid and ethmoid bones								
	The sinuses lighten the skull and are resonance chambers for speech.								
8.	What is the bony orbit?	A bony socket for the eye							
	What bones contribute to the formation of the orbit?								
	Ethmoid, lacrimal, frontal, sphenoid, zygomatic, maxillary.								
9.	Why can the sphenoid hone h	be called the keystone bone of the	e cranium?						
	Why can the sphenoid bone be called the keystone bone of the cranium? It articulates with all of the other cranial bones.								

The Vertebral Column

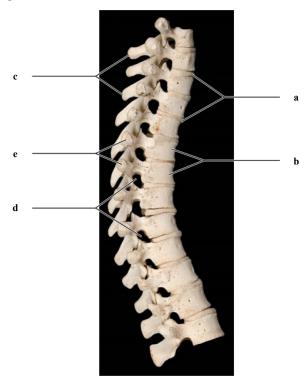
10.	. The distinguishing characteristics of the vertebrae composing the vertebral column are noted below. Correctly identify each described structure by choosing a response from the key.					tify each				
	Key:	a. b. c.	atlas axis cervical verteb	ora—	6	l. !.	coccyx lumbar vertebra		f. sacrum g. thoracic vertebra	
			c	_ 1.	vertebra type ies ascend to		ntaining foramina in the transver ch the brain	rse process	ses, through which the verteb	ral arter-
			a	2.	dens here pro	vid	es a pivot for rotation of the firs	st cervical v	vertebra (C ₁)	
			g	3.	transverse pr downward	oce	esses faceted for articulation	with ribs	s; spinous process pointing	sharply
			f	4.	composite bo	ne;	articulates with the hip bone la	iterally		
			e	5.	massive vertel	ora	; weight-sustaining			
			d	6.	"tail bone" fu	sec	d vertebrae			
			b	7.	supports the h	nea	d; allows a rocking motion in co	onjunction	with the occipital condyles	
11.							ts/areas described below. (More bral areas in the diagram.	than one	choice may apply in some case	es.) Also
	Key:	a. b. c.	body intervertebral lamina	forar		l.	pedicle spinous process superior articular facet	_	g. transverse process n. vertebral arch vertebral foramen	
			i	1.	cavity enclosir	ıg t	the spinal cord			
	_			2.	weight-bearin	g p	portion of the vertebra			
		e	g	3.	provide levers	ag	ainst which muscles pull	\		
		a	g	4.	provide an art	icu	lation point for the ribs	16		
			b	5.	openings prov	ridii	ng for exit of spinal nerves			
		a	,h	6.	structures tha	t fo	orm an enclosure for the spinal c	cord		}
	_	c	d	7.	structures tha	t fo	orm the vertebral arch			/
12	Descr	iha l	now a spinal po	nve o	vits from the un	rtel	bral column			
12.	Desci						na found between the pedicles			
13.	Name						ty of the vertebral column.	•		
					Curvatures		and	Inter	rvertebral discs	
1/1	\\\hat	kin	d of tissue make	06 110	the interverteb	ral	F	Fibrocarti	ilage	
14.	vviidt	KIII	G OI USSUE III GN	cs up	the interverted	ai	uiscs:			

5. What is a herniated disc?	A rupture disc in which	ch a position o	f the disc protruc	les outward.
What problems might it cause?	It might compress a no	erve, leading t	o pain and possib	oly paralysis.
6. Which two spinal curvatures are o	ovious at birth?	Sacral	and	Thoratic
Under what conditions do the seco	ondary curvatures develop?			
The cervical o	urvature develops when	the body begi	ns to raise its hea	d independently.
The lumbar	urvature forms hen the	baby begins to	walk (assumes t	ipright posture).

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

Key: a. intervertebral discs b. intervertebral foramina

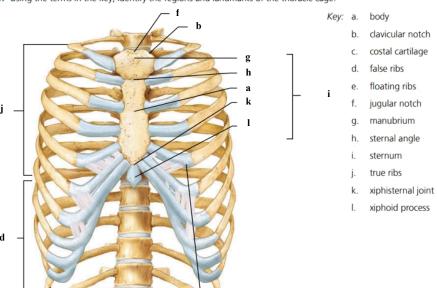
- c. spinous prosesses d. thoracic vertebrae e. transverse processes



The Thoracic Cage

18.	The major bony components of the thorax (excluding the vertebral column) are theribs				
	and the	sternum			
19.	Differentiate between a true rib and a false rib				
		A true rib has its own costal cartilage attachment to the			
		sternum.			
	Is a floating rib a true or a false rib?	False			
20	What is the general chane of the thoracic cage?	An inverted cone shape.			

21. Using the terms in the key, identify the regions and landmarks of the thoracic cage.



Tho	Ental	Skull
IIIe	letai	Skull

22.	Are the same skull bones seen in the adult also found in the fetal skull?
23.	How does the size of the fetal face compare to its cranium? The face is foreshadowed and overshadowed by the large cranium.
	How does this compare to the adult skull? In the adult the cranium is proportionately smaller and the facial bones are proportionately larger and more prominent.
24.	What are the outward conical projections on some of the fetal cranial bones? These are ossification (growth) centers.
25.	What is a fontanelle? It is an anatomical feature of the infant human skull comprising any of the soft membranous gaps (sutures) between the cranial bones that make up the calvaria of a fetus or an infant.
	What is its fate? It ossifies completely by age 2.
	What is the function of the fontanelles in the fetal skull?
26.	Fontanelles allow the bones of the skull to move so the baby's head can change shape during delivery. The birth canal is narrow, and the movement of the bones helps the baby's head to get through. Craniosynostosis is a condition in which one or more of the fontanelles is replaced by bone prematurely. Discuss the ramifications of this early closure.
27.	◆ As we age, we often become shorter. Explain why this might occur.
28.	The xiphoid process is often missing from the sternum in bone collections. Hypothesize why it might be missing.