NT.		
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Name	Class	

SECTION 37-1 REVIEW

THE CIRCULATORY SYSTEM

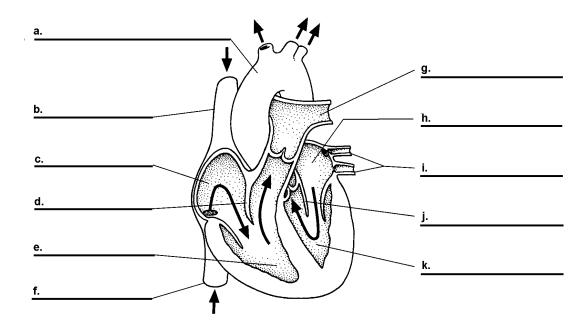
CABU	LAR	Y REVIEW Dist	tinguis	h between the	terms in	each of the fol	lowing p	pairs of terms.
ventri	cle, a	trium						
pulmo	nary	circulation, system	nic circi	ılation				
athero	osclei	rosis, hypertension						
systoli	c pre	ssure, diastolic pres	sure					
. TIPL _ 1.		HOICE Write the		ect letter in the		?		
	a.	aortic valve		pacemaker	c.		d.	tricuspid valve
_ 2.		aring its circulation		left atrium to th	e left venti	icle, what percent	age of the	e blood enters the
	a.	0%	b.	25%	c.	50%	d.	100%
_ 3.	Ex	change of nutrients	and was	te between bloo	d and body	tissues occurs acı	ross	
	a.	arterioles.	b.	capillaries.	c.	arteries.	d.	veins.
_ 4.	W	hich one of the follo	wing ch	aracteristics is u	nique to th	e pulmonary circu	lation?	
	a. b. c. d.	capillaries that ex arteries that carry an artery that carr an artery that carr	blood a	way from the herenated blood from	art om the hear	rt		
5.	Th	e circulatory system	is com	posed of the				
	a .	lung, heart, and b	rain.		C.	lung, blood vess	els, and h	eart.

b. heart, blood, and blood vessels. d. heart, arteries, and veins.

Na	me		Class	Date
SH	ORT ANSWER Ans	swer the questions in th	ne space provided.	
1.	Distinguish between p	oulmonary circulation and s	ystemic circulation. (p.945	5)
2.	Trace the flow of bloo	od through the heart. Start a	at the right atrium. (p.944))
3.	What is the major fun	ction of all valves in the hea	art? (p.945)	
4.				or systolic pressure be affected the most?

STRUCTURES AND FUNCTIONS Use the figure of the human heart below to answer the following questions. (p.944)

1. Label each part of the figure in the spaces provided. Use the following terms: left and right ventricle, left and right atrium, aorta, pulmonary artery and veins, mitral valve, tricuspid valve, and superior and inferior vena cava.



2. Color the heart chambers, arteries, and veins red if they contain oxygenated blood and blue if they contain deoxygenated blood.

Name	 Class	Date	

SECTION 37-2 REVIEW

BLOOD AND THE LYMPHATIC SYSTEM

כ	CABUL	AR۱	REVIEW D	efine t	he fo	llowing ter	ms.				
	plasma										
	LTIPLE 1.		OICE Write					e	molecul	es of the	e red blood cells.
			platelets			ntibodies			plasma		hemoglobin
	2.	Pha	agocytes are spec	cialized	white	blood cells the	hat				
		a. b.	carry hemoglol produce album				c. d.		engulf and digest produce antibodie		
_	3.	Pla	itelets								
		a. b.	are formed in l are involved w			ting.	c. d.		produce hemoglo are whole cells.	bin.	
_	4.	Ma	ature red blood co	ells							
		a. b.	live for several	-	he bl	ood.	c. d.		promote clotting. do not have a nuc	leus.	
	5.	If s	someone is receiv	ving a bl	ood t	ransfusion, w	hich of the	e i	Collowing is most i	mportan	t to know?
		a. b. c.	the number of the number of the donor's blo	white blo	ood c	ells in the dor	nated bloo				
		d.	if the blood rec	apient h	as eat	ten within the	last six ho	ou	rs		

How is	oxygen transported		e space provided.		
List two					
	o structural or funct				
		ional differences betwee	en red and white blood co		
Explair			ate blood only to a perso		
			953)		
How m		ect the oxygen-carrying	capacity of the blood? (
		eet ine onjgen eurijing			
			•		
RUCTU					
RUCTU	RES AND FUNC	TIONS Use the table b	pelow to answer the follo Antibodies	wing questions. (p.	
RUCTU	Blood Types	TIONS Use the table be a compared to the blood Cells	Pelow to answer the follo Antibodies Produced Against	wing questions. (p. Can Donate Blood to	
RUCTU	Blood Types A	TIONS Use the table be a considered to the consi	Antibodies Produced Against	wing questions. (p. Can Donate Blood to A, AB	

Name	 Class	Date	

SECTION 37-3 REVIEW

THE RESPIRATORY SYSTEM

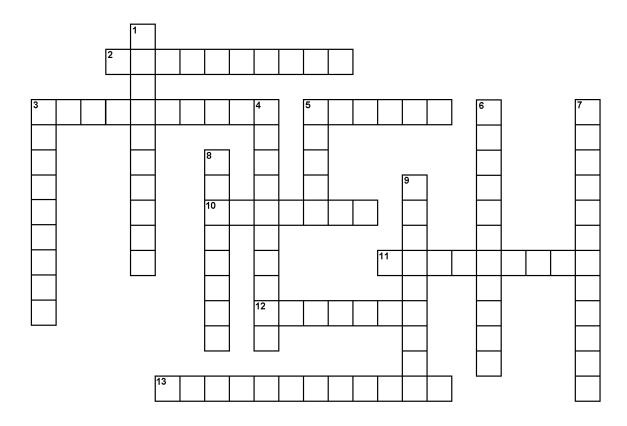
trachea	ı							
		OICE Write the						
_ 1.	The	e tiny hollow air sacs v	where	oxygen exchange	takes pla	ace are the		
	a.	alveoli.	b.	lymph nodes.	c.	capillaries.	d.	bronchioles.
_ 2.	Tw	o highly elastic folds of	of tiss	sue known as the vo	ocal cord	ls can be found i	n the	
	a.	larynx.	b.	pharynx.	c.	trachea.	d.	bronchi.
_ 3.	The	e large, flat muscle tha	t mo	ves up and down to	alter the	e volume of the	chest c	avity is the
	a.	trachea.	b.	epiglottis.	c.	diaphragm.	d.	larynx.
_ 4.	Wł	nich of the following is	not	contained in tobacc	o smoke	e?		
	a.	carbon monoxide	b.	caffeine	c.	nicotine	d.	tar
_ 5.		ide the chest, each bro	nchu	s divides into small	er and s	maller passagew	ays kr	nown as
_ 5.	Ins	ide the chest, each bro						
_ 5. 6.	Ins a.	ide the chest, each bro bronchi.	b.	bronchioles.	er and s	maller passagew emphysema.	ays kn	

ne	Class	Date
ORT ANSWER Answer the q	uestions in the space provided.	
	piratory system? Explain your answer. (p.9	
How is most carbon dioxide transp	ported in the blood? (p.958 picture)	
Describe how the skeleton is invol	ved with expiration. (p.959)	
What is the basic function of the r	espiratory system? (p.956)	
In biology, the word respiration is	used in two slightly different ways. Explain	n how these ways are different.
	cell to an alveolus?	
What drives the diffusion of oxygodioxide in the lungs from a blood	Use the figure below to answer the followen and carbon cell to an alveolus? O2	Blood

Name Class	Date
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VOCABULARY - CHAPTER 37

The crossword puzzle is a simple way to master some of the more important vocabulary terms in this chapter.



Across

- 2. another name for all types of white blood cells
- 3. white blood cells that engulf foreign substances
- 5. the voice box
- 10. the windpipe
- 11. the left _____ pumps blood into the aorta
- 12. small air sacs in the lungs where oxygen and carbon dioxide are exchanged
- 13. the superior and inferior vena cava conduct _____ blood to the right atrium

Down

- iron containing protein found in red blood cells that carry most of the oxygen and some of the carbon dioxide
- 3. _____ are required for the formation of blood clots
- 4. the _____ node is called the pacemaker of the heart
- 5. the _____ node removes pathogens like bacteria and viruses from the lymphatic fluid of your body
- 6. the sac that surrounds the heart and protects it from rubbing against other structures
- 7. medical term for high blood pressure
- 8. during _____ respiration gases are exchanged between the blood and the cells
- 9. a small artery

The following terms are **not** in this chapter but are found in this puzzle. Use a reference source and look up their meanings so you can successfully complete this puzzle: **leukocytes**, **deoxygenated**, **pericardium**, **and internal**.