Re	eview: Circulatory System	Name_	KEY	
1.	What is the function of the atria?  right atrium <u>receives deoxygenated blood from the body</u> left atrium <u>receives oxygenated blood from the lungs</u>			
2.	What is the function of the ventricles?  right ventricle <u>pumps deoxygenated blood to the lungs</u> left ventricle <u>pumps oxygenated blood to the body</u>			
De	fine the following:			
3. 4. 5. 6. 7. 8. 9.	a group of nerve cells that adjusts heart rate:pacemaker_ a muscular organ that pumps blood throughout the body: _heart_ made up of the heart, blood, and blood vessels:cardiovascular syste flap of tissue that prevents blood from flowing backwards:valve_ the largest artery:aorta_ the largest veins:superior and inferior vena cava where substances are exchanged between the blood and the body cell entify the following blood vessels.		- illaries	
	Connective tissue  Smooth muscle  Epithelial tissue  B			C
1.	A: <u>vein</u> B. <u>artery</u>	C	capillary_	· · · · · · · · · · · · · · · · · · ·
2.	After blood leaves the heart, which vessels does blood flow through.	Which	order?	

Which vessel allows diffusion through its walls? <u>capillary</u>

What causes blood pressure? *contraction of the ventricles/ the force blood exerts against the walls of arteries* 

What factors help move blood through veins? valves, contraction of muscles, smooth inside surface

3.

4.

5.

## Complete the table and answer the questions.

Blood Component	Description	Function
plasma	liquid and dissolved proteins	transports materials
red blood cell	has hemoglobin, disk-shaped, no	carries oxygen from lungs
white blood cell	larger than red cell, has nucleus	fights infection
platelet	white blood cell fragments	sticks to wound, produces fibrin

11.	If a person	with type B	blood needs a	transfusion,	which types	of blood ca	n the person	safely	receive?
	<u>B</u>	and	<u>O</u>						

## Write each of the behaviors on the list below in the appropriate column on the chart.

## **Behaviors**

running

being overweight

eating foods low in cholesterol

smoking

eating low-sodium foods

eating foods high in fat

playing basketball

eating salty foods

12.

Behaviors	that Affect Your Heart
Healthy	Harmful
running	smoking
playing basketball	being overweight
eating low-sodium foods	eating salty foods
eating foods low in cholesterol	eating foods high in fat

1.	atherosclerosis	artery walls thicken, fatty material builds up	
2.	cholesterol	a waxy, fat-like substance that restricts blood flow	
3.	heart attack	occurs when blood flow to the heart is blocked	
4.	hypertension_	high blood pressure	

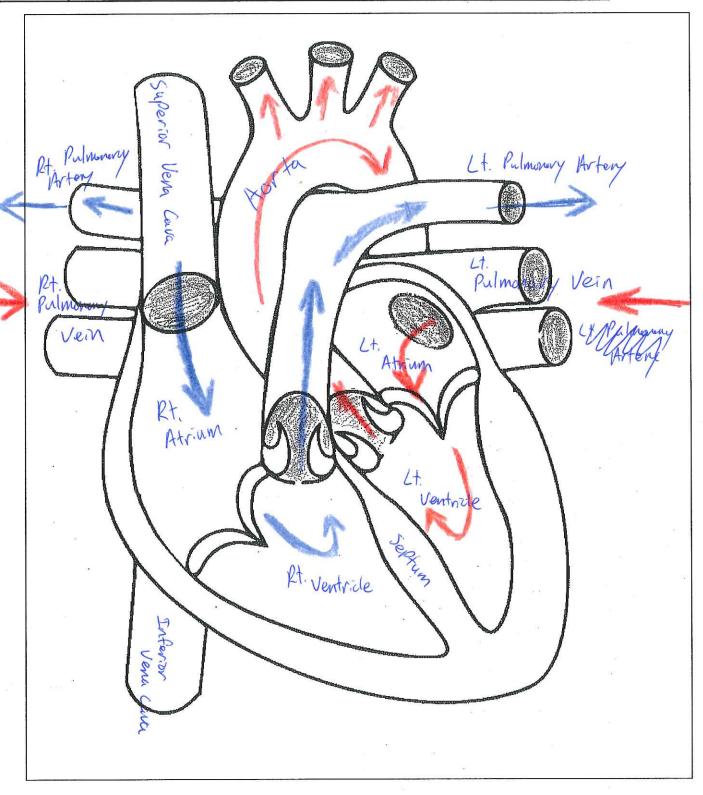
Write a definition for each of the terms below.

Why is atherosclerosis dangerous? It can lead to a heart attack because it blocks blood flow, which can	
kill you.	

## Number the following in the correct order. (2-10) Number 1 is done for you.

1 Deoxygenated blood enters the heart through the superior vena cava and the inferior vena cava.
Arteries branch into capillaries in the body where oxygen is dropped off and $CO_2$ /waste is picked up, and the "dirty" blood returns to the heart through the veins.
Oxygenated blood travels back to the heart through the pulmonary veins.
$\frac{2}{2}$ Deoxygenated blood fills the right atrium.
9 Both ventricles contract and oxygenated blood leaves the heart through the aortic valve and into the aorta.
$\frac{7}{2}$ Oxygenated blood enters the heart and fills the left atrium
Both atria walls contract and the deoxygenated blood goes down through the tricuspid valve to fill the right ventricle.
8 Both atria contract and oxygenated blood travels through the mitral valve down to fill the left ventricle.
Both ventricles contract and deoxygenated blood leaves the right ventricle through the pulmonary valve and into the pulmonary arteries.

Label the parts of the heart and draw arrows with RED & BLUE showing the flow of blood.



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