b. Left atrium

Investigating the Circulatory System

		worksheet as you view the Circulatory System Views in Human Anatomy Atlas and use information ur teacher and textbook.
1.	Explain	ne Circulatory System Tile . Using the Draw icon, identify the main structures of the circulatory system the function of each below. Click the Save to Pictures icon when you are finished. Heart
	b.	Arteries
	C.	Veins
2.		Describe each component of the circuit below. What is the purpose of the pulmonary circuit?
	b.	Pulmonary arteries
	C.	Pulmonary veins
	d.	Right atrium
	e.	Lungs
3.	below.	the Circulatory System Tile to investigate the systemic circuit. Describe each component of the circuit What is the purpose of the systemic circuit?
	a.	
	b.	Aorta
	C.	Inferior vena cava
	d.	Superior vena cava
4.	Open t	he Heart Section Tile. Investigate the heart and describe each component of the heart.
	a.	Right atrium

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c.	Right ventricle
d.	Left ventricle
e.	Mitral (bicuspid) valve
f.	Tricuspid valve
g.	Aortic valve
h.	Pulmonary valve
	rate the Heart Conduct Tile Draw and describe the stone in the carding sycle helpy. If pagessor

5. Investigate the **Heart Conduct Tile**. Draw and describe the steps in the cardiac cycle below. If necessary, research the cardiac cycle using other resources.

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- 6. Challenge Quiz yourself! Use the Circulatory quizzes to test your understanding of the structures of the heart.
 - a. Pulmonary Circulation
 - b. Coronary Circulation
 - c. Heart Chambers
 - d. Heart Valves

Make Connections

- a. Cardiac Cycle Find the pulse in your neck. (Place two fingers on your neck right under your ear. Slide your fingers along your jawline until you feel the groove between your neck muscle and your trachea.)
- b. Have a partner time you as you could the beats of your pulse for 15 seconds. Multiply the number of beats by 4 to determine how many beats per minute. Repeat this process 3 times and average your totals to get a more accurate estimate of your current heart rate.
- c. Resting Heart Beats in 15 seconds counted 3 times

i. _____ x 4 = ____

ii. _____ x 4 = ____

iii. _____ x 4 = _____ Average = _____

- d. Now get up and move around for 2 minutes. You could do jumping jacks, run in place, do high knee steps, or another type of active exercise. After 2 minutes, collect heartbeat data again.
- e. After Exercise Heart Beats in 15 seconds counted 3 times

i. _____x 4 = _____ ii. ____x 4 = _____

iii. _____ x 4 = ____ Average = _____

- f. Analyze your data. Provide evidence to support if your heart rate changed or not.
- g. What has to happen within your heart to cause a change in heart rate?

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