

# The Heart

Name: \_\_\_\_\_ Per: \_\_\_\_\_

**Part 1:** Watch the indicated videos and answer the questions below.

## Questions for Part 1:

Video 1: *Introduction to Heart Anatomy:*

- <http://www.youtube.com/watch?v=JA0Wb3gc4mE>
- [http://www.youtube.com/watch?v=oZ1\\_TAwCUWw](http://www.youtube.com/watch?v=oZ1_TAwCUWw)
- [http://www.youtube.com/watch?v=UxzZyrX2Q\\_w](http://www.youtube.com/watch?v=UxzZyrX2Q_w)
- <http://www.youtube.com/watch?v=SvAVu-7E2gA>

1. How big is the heart?
2. How many times does it beat per day?
3. How many gallons of blood travel through the heart each day?
4. If you laid out all of your blood vessels end to end, how long would they be?
5. How many chambers does the heart have?
6. For each of the following list whether it deoxygenated blood or oxygenated blood passes through it:  

Right atrium and right ventricle:	Left Atrium and Left Ventricle:
Aorta:	Superior and inferior vena cava:
Pulmonary trunk (arteries):	Pulmonary Vein:
7. What two things does blood deliver to the body's cells?  
1) \_\_\_\_\_ 2) \_\_\_\_\_
8. What two things does blood pick up from the cells to get rid of?  
1) \_\_\_\_\_ 2) \_\_\_\_\_
9. What is the purpose of the heart's valves?
10. What part of the body do the coronary arteries provide oxygen to?
11. What is coronary artery disease?
12. What is the job of the sinoatrial node?
13. What is the septum and where is it located?
14. Blood pumped into the aorta is coming from the \_\_\_\_\_ and going to \_\_\_\_\_.
15. All arteries send blood \_\_\_\_\_ from the heart while all veins send blood \_\_\_\_\_ the heart.

16. Why is blood sent to the lungs?

17. What is the job of the coronary sinus?

Video 2: *Congestive Heart Failure*: <http://www.youtube.com/watch?v=GnpLm9fzYxU>

18. How many times per minute does a healthy heart beat?

19. Which part of the heart is the main pumping chamber?

20. What are three things that can lead to congestive heart failure?

1)

2)

3)

21. What is congestive heart failure?

Video 3: *What is a Heart Attack?* <http://www.youtube.com/watch?v=n8P3n6GKBSY>

Write one paragraph explaining what causes a heart attack and its affect on the heart.

**Part 2:** Examine a real heart. Sheep hearts are preferable because they are similar in size to human hearts.

- Be able to identify the following parts to your teacher: Right atrium, right ventricle, left atrium, left ventricle, aorta, superior vena cava, inferior vena cava, pulmonary arteries, pulmonary veins, coronary arteries and veins, heart valves.
- Be able to explain the flow of blood into, through, and out of the heart. When your teacher points to a chamber, be able to answer questions like “where is this blood going?” and “where did this blood come from?” and “is the blood that comes through here oxygenated or deoxygenated?”
- Be sure all group members can answer these questions as you will be assessed as a group.

