Heart and Circulatory System Webquest

Go to the following website: [http://www.fi.edu/learn/heart/index.html](http://www.fi.edu/learn/heart/index.html)

Home is where the heart is…

1. How many times during the average person’s lifetime does the heart beat?

2. What is the name of the institution that runs this website?

Now click on “development” (in the paragraph or at the top of the page)

3. About how large is the human heart?

4. How large is the heart during fetal development?

5. Describe what the heart looks like during the four stages of fetal heart development.
   a. 1st Stage
   b. 2nd Stage
   c. 3rd Stage
   d. 4th Stage

6. What happens to the average heart rate from infancy to 18 years?
Now click on “Structure”…
7. What is a heart shaped like?

8. How many cavities are found in the human heart? What are they called?

9. What is the wall called that divides the heart?

10. Name the valves and the chambers they connect.
   a. Mitral valve-
   b. Tricuspid valve-

11. What are the names of the two largest veins?

12. What does “vena cava” mean?

13. Where is your heart located? What is that cavity called?

Now click on “Vessels”…
14. What are the three types of blood vessels?

15. Describe where these blood vessels carry blood
   a. Veins-
   b. Arteries-

16. If you stretched out an adult’s blood vessels about how long would they be?
17. What is the pulse?

18. What is blood pressure?

Now click “Blood”…

19. About how many liters of blood does an adult have?

20. What is the purpose of blood?

21. What is the function of each component of blood?
   a. Red blood cells-
   b. White blood cells-
   c. Plasma-
   d. Platelets-
   e. Lymph-

22. What are the four blood types?

23. What is an autologous blood donation?

Click on “Systems” and then click “Circulatory system”…

24. What are the main components of the circulatory system?

25. Describe each of the following:
   a. Pulmonary circulation-
26. Explain each of the following diseases:

a. High blood pressure

b. Diabetes

c. Heart attack