**Circulatory System**

1. What is the function of the circulatory system?

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2. The heart pumps blood through our body. How many chambers does the human heart have? \_\_\_\_\_\_

The top chambers that receive blood are called \_\_\_\_\_\_\_\_\_\_\_\_\_.

The bottom chambers that pump blood out of the heart are called \_\_\_\_\_\_.  
  
Fill in the correct chamber of the heart or blood vessel to complete the path of blood through heart, body and lungs.   
  
Superior vena cava and Inferior vena cava 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 right ventricle 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (vessel) 🡪 lungs 🡪 pulmonary vein 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_ (vessel) 🡪 body 🡪 BACK TO START

3. Identify the three types of blood vessels and complete the chart below:

|  |  |  |  |
| --- | --- | --- | --- |
| Name of Blood  Vessel | Direction of Blood  Flow (to/from heart) | Thickness of Walls | Presence of valves? (Yes or No) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

4. In which chamber of the heart is the pacemaker, the SA node, located? \_\_\_\_\_\_\_\_\_\_\_  
  
Number each of the events to put them in the correct order:   
\_\_\_ The AV node receives the signal \_\_\_ The atria contract  
\_\_\_ The SA node sends out the signal \_\_\_ The ventricles contract

5. Relate pulse and blood pressure to contraction of the heart.

An average pulse is between 60 – 100. What does this number mean?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A typical blood pressure is 120/80. What is the top number called? \_\_\_\_\_\_\_  
What does this number represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the bottom number called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What does this number represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. What are functions of the 4 main components of blood?

* Red blood cells \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* White blood cells \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Platelets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Plasma \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Choose one of these conditions and complete the questions.   
  
Some common diseases or conditions of this system are:

* Atherosclerosis
* High Blood Pressure
* Heart Attack
* Stroke

Name of disease: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What are the causes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What are the symptoms? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What effects are seen on the circulatory system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* How is the condition treated? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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