Circulatory System Outline Notes

Circulatory System – is actually ____________________________________________________________

________________________________________________________

Lymphatic System:

■ This is a group of organs and tissues that ______________________________________________________

-monitor the blood.

■ The leaked fluid ____________________________________________________________

■ It is an “open” system and _______________________________________________________________

■ It is also part of the body’s ________________________________________________________________

Cardiovascular System:

■ Your heart, ________________________________________________________________ make up the

-__________________________________________________________

■ Blood is the __________________________________________, nutrients and

-__________________________________________________________

■ It is a __________________________________ system, the blood is carried in __________________________________________

-__________________________________________________________

How do the systems work together?

■ Every time your __________________________________________, a little fluid is forced out of the _______

-of the ______________________________________________________, the ____________________ and

-the __________________________________________ is collected by lymph capillaries.

■ The ____________________________________________ is where ____________________

-mature. Some of these ___________________________ stay in the lymphatic

-system where they attack ________________________________.

Homeostasis

■ How does the cardiovascular system help maintain homeostasis?

■ The __________________________ maintains __________________________ by transporting

-__________________________________________________________ and ____________________________ to
cells and by carrying ____________________________ away from cells.

■ The __________________________ also helps homeostasis – when the body heats up,

-_____________________________ to allow it to rise closer to the skin and cool.

■ When the body is cold, the __________________________, this keeps

-the blood closer the internal organs, where it is __________________________.
**Lymphatic System**

- **Structures:** ____________________________________________________________

- Lymph nodes are small, ____________________________ that remove ___________________________ and ___________________________.

- Lymph nodes are concentrated in the ____________, ____________ and ____________

  Label the missing ones:

  ![The Lymphatic System Diagram]

- In the event of an infection (bacteria or virus – __________________ – a disease producing agent), these ____________________________ multiple and __________________ the infection

- Lymph vessels – __________________________________________________________

- Bone marrow – __________________________________________________________

- Tonsils – are small ____________________________ at the back of your _____________.
  
  - They help defend your body against infection

- Thymus and Spleen – these are _________ in the body that _____________ the white blood cells. From the thymus, and spleen, these ____________________________
  
  ____________________________ to fight infections

**Cardiovascular System**

- **Structures**
  
  __________________________________________________________

- It is known as a
  
  __________________________________________________________

  **Heart**

- The pump that sends ____________ around your _____________. It is about the size of your ____________.
The heart _____________ the blood in it, this ______________ creates ______________ that pushes ______________ through the ____________.

The heart has a ________________, separated by a wall.

There are ________________ of each side of the heart.

In between the chambers, are _____________ that open and close.

These ________________ from flowing _______________ and make the “ ________________” sound of a beating heart.

**Blood Vessels**

These are the ________________.

There are 3 types: ________________

1. **Arteries**—move ________________
   - They have thick walls with a layer of ________________

   Each heart beat pumps ________________ into your arteries at ________________ — this is your blood ________________

2. **Veins**—move blood ________________
   - Valves keep the blood from ________________
   - Arteries—move blood away from the heart (______________)
   - Veins—move blood toward the heart (______________)

3. **Capillaries**—

**Functions of the Blood**

- Carries ________________ from ________________ to all ________________ & removes ________________ dioxide from the ________________
- Carries ________________ products of ________________ to kidneys to be ________________ from the body
- Transports ________________ from ________________ to body cells
- Materials in blood help ________________ and ________________ (white blood cells & platelets)

<table>
<thead>
<tr>
<th>Type of Cell</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Red Blood Cells</td>
</tr>
<tr>
<td>B</td>
<td>White Blood Cells</td>
</tr>
<tr>
<td>C</td>
<td>Platelets</td>
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</tbody>
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