Chapter 20.2: Circulation

Student ____________________ Section _____ Due Date _____

Read pages 421-427 in your textbook, Science Insights. Answer the following questions:

**Introduction:** page 421

1. What is the primary function of the circulatory system? ____________________________

2. List the 3 main parts of the circulatory system:

**The Heart:** page 421

3. How big is your heart? ____________________________

4. Label the following parts of the heart. Color the oxygenated side of the heart red and the deoxygenated side of the heart blue. Draw in arrows showing the direction of flow of the blood through the heart.

   *left atrium*    *right atrium*    *left ventricle*    *right ventricle*

   ![Heart Diagram](image)
5. The ______________________ receive blood coming into the heart.

6. The ______________________ keep blood from flowing backwards in the heart.

7. What makes the heartbeat sound? ______________________

8. Blood leaves the heart through blood vessels called _________________.

9. "Arteries have ________________, ________________, and ________________ walls."

10. The smallest blood vessels in your body are called _________________.

11. Blood vessels that carry blood from the body cells back to the heart are called __________________ .

**Blood Vessels:** page 422

12. The number of times your heart beats per minute is called ________________ .

13. Normal heart rate for an adult is between _______ and _______ .

**Heart Rate:** page 422

14. What is blood pressure? ____________________________________________

________________________________________

15. Normal blood pressure is _________ over ___________.

16. Why should you have your blood pressure checked periodically?

________________________________________
**Blood:** page 424

Match the following blood parts to the statements below:

<table>
<thead>
<tr>
<th>red blood cells</th>
<th>white blood cells</th>
<th>platelets</th>
<th>plasma</th>
</tr>
</thead>
<tbody>
<tr>
<td>17. contain hemoglobin which carries oxygen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18. watery fluid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. cause blood to clot</td>
<td></td>
<td></td>
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<tr>
<td>20. contain salts and carry dissolved nutrients</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>21. produce fibrin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. live for only a few months</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23. begin development in bone marrow and mature in lymph nodes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24. have no mitochondria</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25. protect us from disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26. made in bone marrow</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Cardiovascular Disease:** page 427 & 428

27. What is cardiovascular disease?

28. List five ways to prevent and control cardiovascular disease.