This worksheet will review some of the concepts covered in class in regards to the human heart. You will need to use your notes, the heart diagram we labeled in class along with Figure 1, below.

**Figure 1: Shaded areas are muscle; unshaded areas are filled with blood.**

In the table below, fill in whether the heart chamber/blood vessel listed contains oxygenated/deoxygenated blood

<table>
<thead>
<tr>
<th>Heart Chamber or Blood Vessel</th>
<th>Oxygenated (O) / Deoxygenated (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Ventricle</td>
<td></td>
</tr>
<tr>
<td>Right Ventricle</td>
<td></td>
</tr>
<tr>
<td>Left Atrium</td>
<td></td>
</tr>
<tr>
<td>Right Atrium</td>
<td></td>
</tr>
<tr>
<td>Pulmonary Artery</td>
<td></td>
</tr>
<tr>
<td>Pulmonary Vein</td>
<td></td>
</tr>
<tr>
<td>Superior vena cava</td>
<td></td>
</tr>
<tr>
<td>Inferior vena cava</td>
<td></td>
</tr>
<tr>
<td>Aorta</td>
<td></td>
</tr>
</tbody>
</table>

Use the table above along with Figure 1 to answer the following:

1. The blood in the **LEFT** side of the heart is oxygenated/deoxygenated. Why is this logical?

2. The blood in the **RIGHT** side of the heart is oxygenated/deoxygenated. Why is this logical?
3. Blood is changed from an oxygenated state to a deoxygenated state OR from a deoxygenated state to an oxygenated state in our circulatory system. Which change occurs in the……

- Lung capillaries ______________________________________
  o Explain why: ______________________________________
    ______________________________________
    ______________________________________

- Body capillaries ______________________________________
  o Explain why: ______________________________________
    ______________________________________
    ______________________________________

4. Where does blood go AFTER it leaves the……

  Right atrium ___________ Aorta ________________
  Left atrium ___________ Superior vena cava ___________
  Right ventricle ___________ Inferior vena cava ___________
  Left ventricle ___________ Lungs ________________________
  Pulmonary veins ___________ Organs & legs ______________
  Pulmonary arteries ___________ Head _____________________

5. Where did the blood come from BEFORE it entered the……

  Right atrium ___________ Aorta ________________
  Left atrium ___________ Superior vena cava ___________
  Right ventricle ___________ Inferior vena cava ___________
  Left ventricle ___________ Lungs ________________________
  Pulmonary veins ___________ Organs & legs ______________
  Pulmonary arteries ___________ Head _____________________

6. What could happen if a heart valve did not work properly?

7. What is the difference between pulmonary and systemic circulation?