Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Heart Dissection**

**1) Heart Anatomy:** Recall the names of the following structures of the heart.

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| **1** |  |
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| **4** |  |
| **5** |  |
| **6** |  |
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| **11** |  |
| **12** |  |
| **13** |  |

**2) Real Heart Anatomy:** Examine the heart organ. Compare the diagram (above) to a real heart. Describe the similarities and the differences between the diagram of a heart and the real organ.

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| **Similarities** | **Differences** |
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**3) Comparing Atria & Ventricles:** Compare the thickness of the atrial walls with the ventricular walls. What implications does this have for their functions?

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**4) Comparing Left & Right Ventricles:** How does the left ventricle differ from the right ventricle in terms of structure and function?

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**5) Design inspired by nature:** If you were to design an artificial water pump, what features would you incorporate based on the principles learned from the heart dissection? Explain your choices.

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