**AICE Bio Heart Dissection Lab Write-Up**

**Purpose:** To explore the anatomy and physiology of the mammalian heart.

**SAFETY AND CONCERNS:** I will always be careful when using scalpels, dissection scissors, cartilage knives, pins, and other supplies. I understand that any dangerous activity during lab will earn me a zero on this assignment and a disciplinary referral. I further promise to respect the life of the animal that I am dissecting.  
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**Materials:** List all.

**Hypothesis:** Describe what you expect the beef heart will look like. Include a description of shape, size, and approximate mass. Do you think it will be similar to a human heart? Why or why not?

**Procedure:**1. Observe and describe outer appearance of the heart.  
2. Using the provided rulers and string ONLY, measure the width of the heart at its largest   
 point, the curve from top to apex, and the circumference. Split the heart open and measure   
 the height of the left and right ventricles, and the thickness of all walls you are able to   
 identify.  
3. Use the probes and scalpels provided to explore your heart. Feel for thickness in varying   
 walls, and try to identify vasculature wherever possible.  
4. When done, clean up thoroughly (wash all materials with soap), and wipe your lab bench   
 with a disinfecting wipe. Wash your hands and forearms well with soap.

**Data:**  
1. Create a table for your measurements.  
2. Record all observable structures that you have identified.  
3. What structures are lacking? Why?

**Conclusions:**  
1. Prepare the space to compare and contrast a bovine and human heart. You may use your   
 textbook and the human heart model for comparative purposes.  
2. What about the bovine heart surprised you? Explain.  
3. What aspects of the bovine heart were easy to identify? With which identifications did you   
 struggle? Why do you think this is?