**AICE Biology: Whole Animal Dissections—Lab Notebook Requirements**

**Purpose:** To compare and contrast the anatomies of two members of the animal kingdoms.

**Materials:** Dissection specimens, dissection trays, scalpel, bone shear, probes, t-pins, scissors, rubber bands, gloves

**Procedure and Safety:**  
1. Follow instructions on provided dissection packets. Complete all activities as described within the packets to the best of your abilities.  
2. Only use the scalpel when absolutely necessary.  
3. Move carefully and slowly—dissection is an art that takes time and patience!

**Contract:** Copy the following into your lab notebook and sign.

I understand that dissections are a potentially dangerous laboratory activity, and I pledge to follow all instructions and take care. I will respect my specimen as a once living thing. I will not play, joke around, or good off at any point during dissections. I understand that any dangerous or inappropriate activity (as determined by Ms. Paxson) will result in me leaving lab and receiving a zero on all activities associated with dissections.

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**Data:**

-For each specimen, create a diagram of the external appearance and at least two diagrams of internal organs (do your best!)  
-Record observations of things that surprise you.

**Conclusions:**

-Create a comparative chart to explore similarities and differences between your two model organisms.

Copy and answer the following questions in complete sentences:

1. How do fish and mammals differ in their excretion of nitrogenous waste? Explain both processes.
2. How do sensory neurons transmit information to the brain?
3. Describe an action and resting potential.
4. What similarities did you notice between the fish and pig? What does this tell you about their evolutionary relationship?