| Name: | |
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Shark Dissection Student Individual Packet

Pre Lab Vocab:

Define the following vocab terms:

- Claspers-
- Cloaca-
- Dorsal Fin-
- Oviparous (Include Example Species)-
- Caudal Fin -
- Viviparous (Include Example Species)-
- Pectoral Fin-
- Lateral-Line System-
- Ampullae of Lorenzini-
- Placoid scales (with illustration)-
- Nares-
- Spiracles-

Pre-Lab Agreement:

- 1. There will be no bringing food or drink to class AT ALL on the dissection day!
- 2. You must wear closed toed shoes on the dissection day
- 3. You must wear properly fitting clothes (no baggy pants or loose shirts) on the dissection day
- 4. Long hair must be pulled back or tied up.
- 5. NO HORSEPLAY DURING LAB !!!
- 6. Cellphones will only be permitted at one specific time during lab (teacher will announce)
- 7. Scalpels and scissors should be handled with extreme caution
- 8. If injury or illness occurs in your group tell the teacher immediately

I understand the rules of this lab and will comply with lab and class rules 100%. Failure to do so will result in me getting sent to ATS and receive written disciplinary actions. If I do not want to participate in this dissection or am absent for it I will be required to complete an alternate packet to fulfill the lab grade.

| Print Name: | Sign Name: _ | | Date: | |
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Pre-Lab Procedure:

Step 1 – Touch the shark

- 1. Describe the texture of the shark's skin when you run your hand in both directions.
- 2. Describe how the skeleton of the shark feels when you bend it. What is it similar to?

Step 2 – Draw and label your shark

Side View of YOUR Shark

- 3. What is the function of the shark's Lateral Line?
- 4. Can you see any ampullae of Lorenzini? Describe what they look like and their function.
- 5. Describe the teeth of the dogfish shark, including orientation, number, etc.

Step 3: Measure the shark.

- 1. How long is your shark? _____ cm
- 2. What is the distance between the 2 dorsal fins? _____ cm
- 3. What is the height of your caudal fin? _____cm

Dissection Individual Review Questions:

Directions: Follow the steps in your procedures packet to dissect your Shark-

- 1. Describe your shark's liver.
- 2. What did you find inside your sharks stomach? Describe the contents. What can you conclude about your sharks eating habits from this dissection?
- 3. What does the rugae look like? What is its function?
- 4. What is the benefit of having a cloaca?
- 5. Does your shark have testes or Ovaries? Describe their appearance and location.
- 6. Describe the chambers of your shark's heart? Why is the ventricle tougher than the atria?

Analysis & Conclusion Questions:

- 1. List 5 traits/characteristics that are different between a clownfish and the shark (bony vs. cartilaginous fish traits).
- 2. What sensory organs did the shark have? List them all including what each did.
- 3. Discuss 3 adaptations for life in the water that a shark has.
- 4. What purpose do the spiracles serve? What do the gill lamellae do?
- 5. What type of scales does the shark have?
- 6. What is the purpose of the cloaca?
- 7. How does a shark maintain buoyancy (what does it use)?