Shark Dissection: Nervous System and Jaws

Purpose: To examine the nervous system of the common *Squalus acanthias* Dogfish Shark and remove the jaws.

Materials: Dogfish shark (Squalus genus) Section of newspaper, Probe, Scalpel, Surgical Scissors and Tweezers.

Procedures:

1. Gently cut away the skin and tissues away from the cranial portion of the shark. Peel back this tissue until the brain is revealed within the cranium. Attempt to remove the brain intact. Label the following portions of the brain: Cerebrum, Cerebellum, Spinal Cord, Optic Lobe and Medulla. Draw on the back of this write up.
2. Compare this brain to the brain of a Human Being. Use page 887 in Alligator Biology Book. List 5 similarities and 5 differences.

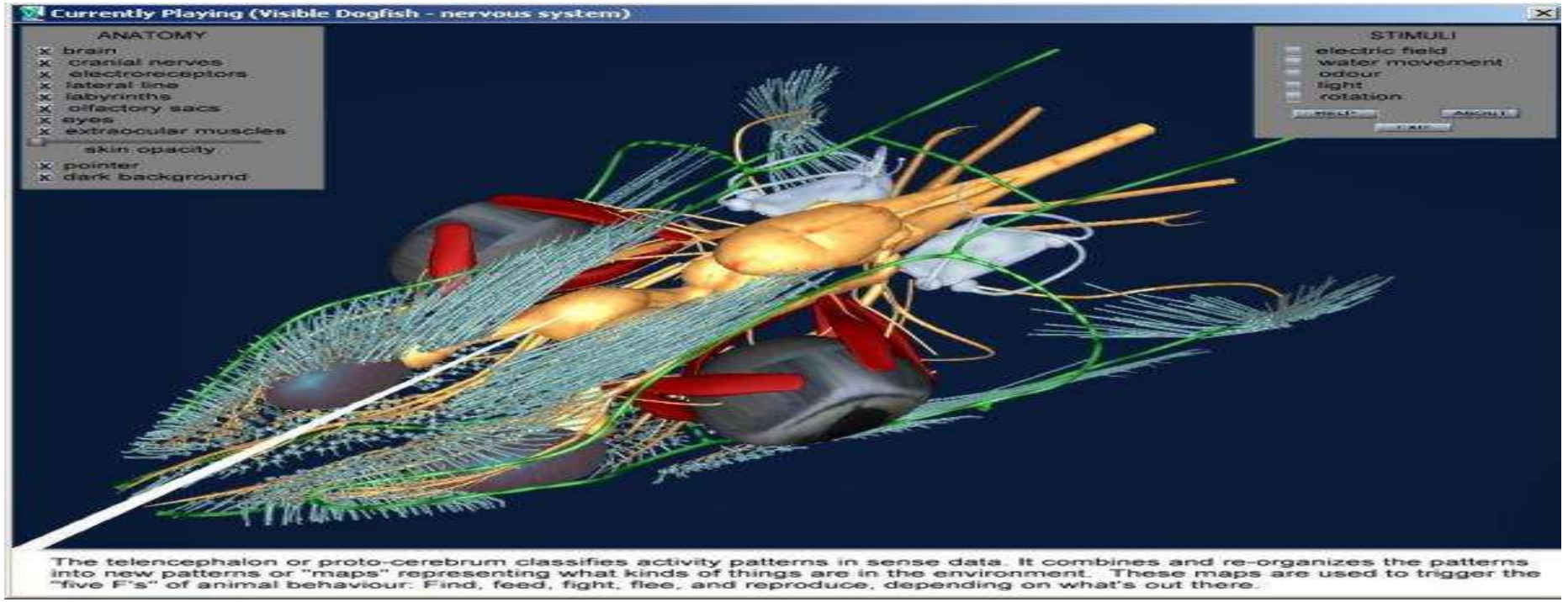
3. Using the tools carefully cut the Jaw out of the shark's head. Leave wide margins around the cartilage structure and peel back the tissues to reveal the jaw. Place the jaw over a water bottle to dry. (See sample jaws from previous years to help with the extraction)

Conclusion: Write a 3-4 sentence conclusion of what you learned from the lab.

Labeled Drawing of the Shark Brain

5 similarities between Shark Brain and Human Brain	5 Differences
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

Drawing of the Shark Jaws



Intact Shark Brain within the skull.

Human Brain Anatomically Labeled