

Name: _____ Date: _____

Shark Pre lab

Use the dissection guide provided to complete this worksheet

Introduction

1. What is the Kingdom of the shark? _____
2. What is the Phylum of the shark? _____
3. What is the Class of the shark? _____
4. What is the scientific name of the shark? _____
5. What are the six tools suggested for this dissection?
a. _____ b. _____ c. _____ d. _____ e. _____ f. _____
6. Name 4 general rules suggested for all dissections.
a. _____
b. _____
c. _____
d. _____

Anatomical Terms

7. Identify these anatomical areas:
 - a. Cranial _____
 - b. Caudal _____
 - c. Dorsal _____
 - d. Ventral _____
 - e. Medial _____
 - f. Distal _____

External Features

8. What is the function of the following?
 - a. External nares _____
 - b. Spiracles _____
 - c. Lateral line _____
 - d. Cloaca _____
 - e. Clasper _____
 - f. Rostrum _____

Name: _____ Date: _____

Skeletal System

9. What is the skeleton composed of? _____
10. What type of cells lay down cartilage? _____

Dissecting the Abdominal Cavity

11. What side up do you place the shark? _____
12. Using _____ make a cut from the _____ side of the jaw _____ down through the middle of the _____ & through the _____ girdle down to just above the _____.
13. From the cloaca, make _____ cuts around the shark. From the _____ make a _____ cut around dorsally.
14. What do you do to the body wall flaps? _____.
15. What figure # do you use to see the incisions required? _____
16. What are the eight organs listed that should be visible when the abdominal cavity is exposed?
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____
 - g. _____
 - h. _____
17. What are the 4 parts to the heart you are asked to identify?
 - a. _____
 - b. _____
 - c. _____
 - d. _____
18. What system involves the liver pancreas? _____
19. What system are the kidneys associated with? _____
20. Name the organ that produces the male gametes: _____
21. What is the highly coiled tube that carries sperm to the seminal vesicles?

Name: _____ Date: _____

22. What organ produces the shark's eggs? _____

23. What organ are the eggs fertilized? _____

24. What organ is used to develop fertilized eggs? _____

The Nervous System

25. What tool is used to shave down the cranium to expose the brain? _____

26. What tool is used to remove chips of cartilage from the cranium? _____

27. What lobe of the brain is used to detect chemicals in the water? _____

28. What region is used to process sight & smell? _____

29. What lobes are used receive nerves from the eye? _____

30. What region controls coordination & position in space? _____

31. What is the region at the base of the brain that controls spinal reflexes? _____