Shark Dissection Guide



The above picture was taken in the summer of 2000. I was fishing on a charter boat near Key West, Florida.							
Identify the following structures a	nd $$ to indicate that you found the structure.						
External Structures							
nostrils	•						
□ rostrum							
□ spiracles							
□ pharynx							
□ clasper; males only							
□ lateral line							
□ cloacal opening							
□ placoid scales							
	structures helped you identify the sex of the shark?						
Internal Structures							
□ parietal peritoneum	□ visceral peritoneum						
□ liver	□ bile duct						
□ rectal gland	□ gallbladder						
□ esophagus	□ stomach						
□rugae							
□ pyloric valve	□ pancreas						
□ spleen	□ valvular intestine (ileum)						
□ spiral "valve"	□ rectum						
□ testes	☐ transverse septum						
□ ovaries							
□ kidneys							
pericardial cavity							
☐ heart							
□ ♥ atrium (need signature from me □ ♥ ventrical (need signature from n	- /						
Look under a dissecting microscope.	Draw and Describe a shark gill.						

What might be the function of gill rakers?

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Class Chondricthyes - Cartilaginous Fish Dog Fish Shark Observations:

Locate	and	list	the	functions	of	the	follo	wing	fins:

Pectoral

Pelvic

Dorsal

Caudal

Define Heterocercal:

Draw your finger lightly over the sharks skin to feel the spines of the placoid scales. Describe the structure of the scales.

Internal Anatomy of the Dogfish Shark

What large organ likely assists in keeping the shark buoyant?

What structure slows the passage of food through the gut?

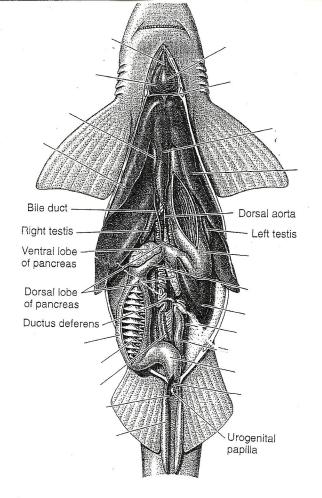
Why might slowing the passage of food be beneficial for the digestive process?

What organ is formed around the posterior end of the J-shaped stomach?

What gland is specific to the cartilaginous fishes and helps regulate the fishes' salt imbalance?

What organ functions as the primary source of red blood cell production?

Name and explain the type of development observed with dogfish sharks.



structure slows the passage of food through the gut? ______ What organ is formed around the posterior end of the J-shaped What gland is specific to the cartilaginous fishes and helps regulate the fishes' salt imbalance? What organ functions as the primary source of red blood cell production?

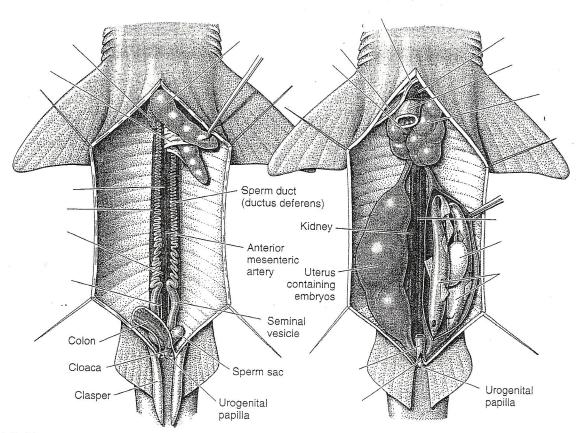


Figure 18-7 Urogenital system of a dogfish shark. Left, Male. Right, Female.