



Sea Star Dissection



Objectives:

- Identify the body wall, gastrovascular cavity, and the central nervous system of a sea star.
- Identify the digestive system, including the stomach, pyloric caeca, and the anus.
- Identify the circulatory system, including the hemal system and the nephridia.
- Identify the reproductive system, including the gonads and the gametes.

Pre-lab: Read the background information on the sea star and complete the pre-lab questions.

CLEAN UP

Wash your hands thoroughly with soap and water after the dissection. Dispose of the dissection materials properly. Clean the dissection tray and the tools.

Background Information:

Sea stars are members of the phylum Echinodermata. They are radially symmetrical and have a five-fold rotational symmetry. They have a central disk and five arms. The oral groove is located on the underside of the central disk and the arms. The oral tentacles are located at the end of the oral groove. The mouth is located at the end of the oral tentacles. The stomach is located in the center of the body. The pyloric caeca are located at the end of the stomach. The anus is located at the end of the pyloric caeca. The hemal system is located in the center of the body. The nephridia are located at the end of the arms. The gonad is located in the center of the body. The gametes are located at the end of the gonad.

Procedure:

- Observe the general appearance of the sea star. Record your observations.
- Identify the oral groove, oral tentacles, mouth, stomach, pyloric caeca, anus, hemal system, nephridia, gonad, and gametes.
- Dissect the sea star to reveal the internal organs.
- Identify the internal organs and record your observations.
- Complete the lab report.

Post-lab: Write a short paragraph about the sea star and its life cycle. Include the following questions:

- What is the life cycle of a sea star?
- How does a sea star reproduce?
- What are the adaptations of a sea star for its environment?
- How does a sea star move?
- What are the functions of the different parts of a sea star?

7-Page Student Packet
Editable .doc & .pdf formats
*** includes teacher answer key**

Star Suite Answer Key Biology

RJ Shavelson



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