

Lab: Starfish Dissection

Purpose: Examine the external and internal anatomy of the starfish.

Materials:

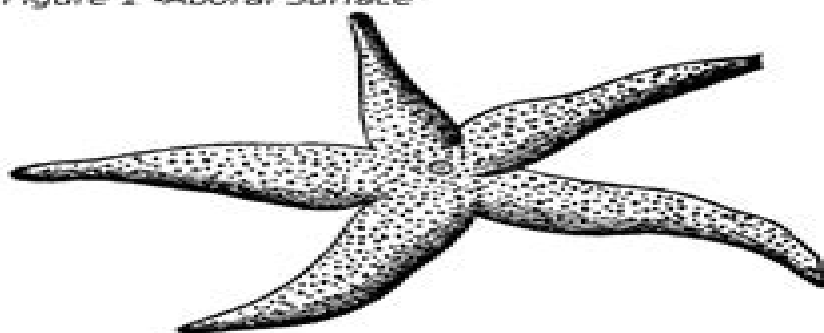
Preserved starfish, dissecting pan, scissors, scalpel, forceps, T-pins, pencil, lab apron, safety glasses

Procedure:

I. Aboral Surface

- 1) Obtain a preserved starfish and rinse off any preservative with water.
- 2) Place the starfish in the dissecting pan with its dorsal or aboral (top) surface upward.
- 3) Observe the starfish and determine its symmetry.
- 4) Locate the central disc in the center of the starfish. **Count and record the number of arms or rays the starfish has.**
Number of arms: _____
- 5) Locate the small, round hard plate called the madreporite on top of the central disc. Water enters through this into the water vascular system. **Label the central disc, arms, and madreporite on Figure 1.**
- 6) Feel the upper surface of the starfish for spines. These spines protect the starfish and are part of their internal skeleton. **Label these on figure 1.**

Figure 1 -Aboral Surface

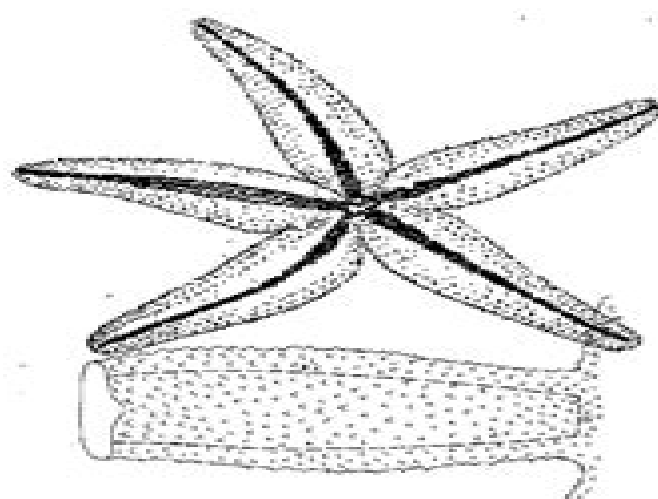


II. Oral Surface

- 7) Turn the starfish over to its ventral or oral surface (underside).
- 8) Locate the mouth in the center of the central disc. Find the ring of oral spines surrounding the mouth. **Label these on figure 2.**
- 9) Find the groove that extends down the underside of each arm. This is called the ambulacral groove. **Label this on figure 2.**
- 10) Feel the numerous, soft tube feet inside each groove. These are part of the water vascular system & aid in movement and feeding. **Label these on Figure 2.**

Figure 2 - Oral Surface

III. Internal Anatomy



Dissection Guide For The Starfish Answer Key

Yan Bai



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