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

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.

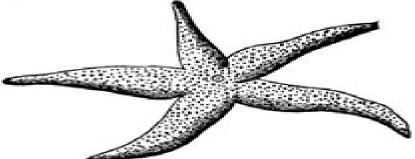
 Locate the central disc in the center of the starfish. Count and record the number of arms or rays the starfish has.

Number or arms:

 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

Turn the starfish over to its ventral or oral surface (underside).

Locate the <u>mouth</u> in the center of the central disc.
 Find the ring of oral spines surrounding the mouth.
 Label these on figure 2.

Find the groove that extends down the underside of each arm. This is called the <u>ambulacral groove</u>.

 Label this on figure 2.

10) Feel the numerous, soft <u>tube feet</u> inside each groove. These are part of the water vascular system & aid in movement and feeding. **Label these on Figure 2**.

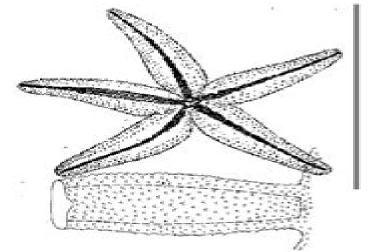


Figure 2 - Oral Surface III. Internal Anatomy

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