Starfish Dissection

Procedure 2: Self-Guided Starfish Dissection

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

Procedure (Aboral Surface):

- Obtain a preserved starfish and rinse off preservative with tap water.
- Place the starfish in the dissecting pan with its dorsal or aboral (top) surface upward.
- Observe the starfish and determine its symmetry.
- 4. Locate the central disc. Count and record the number of arms or rays the starfish has.
- 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 1A.
- The anus, for excretion following digestion, is a smaller opening right next to the madreporite. Label this on Figure 1A.
- Feel the upper surface of the starfish for spines. These spines protect the starfish and are part of their internal skeleton. Label this on Figure 1A. Between each spine are skin gills. These are pores that allow the starfish to take in oxygen for cellular respiration.

Figure 1: A = Aboral Surface, B = Oral Surface

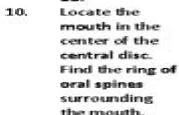
8. Turn the starfish over to its ventral or

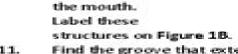
9.

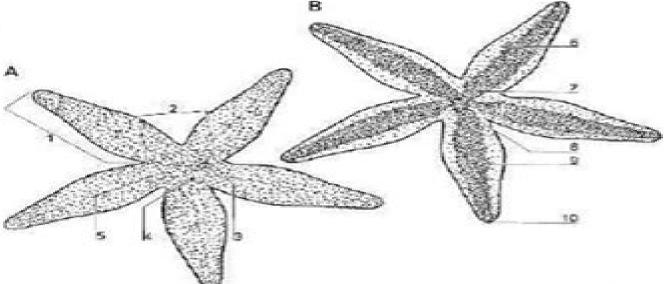
Procedure (Oral Surface):

its ventral or oral surface (underside). Look at the tip

of each arm and find the eyespot. Label this on Figure 18.







- Find the groove that extends down the underside of each arm. This is called the ambulacral groove. Label
 this on Figure 18.
- 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 1B.

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Robert R. Redfield

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