Name: _____ Date: _____

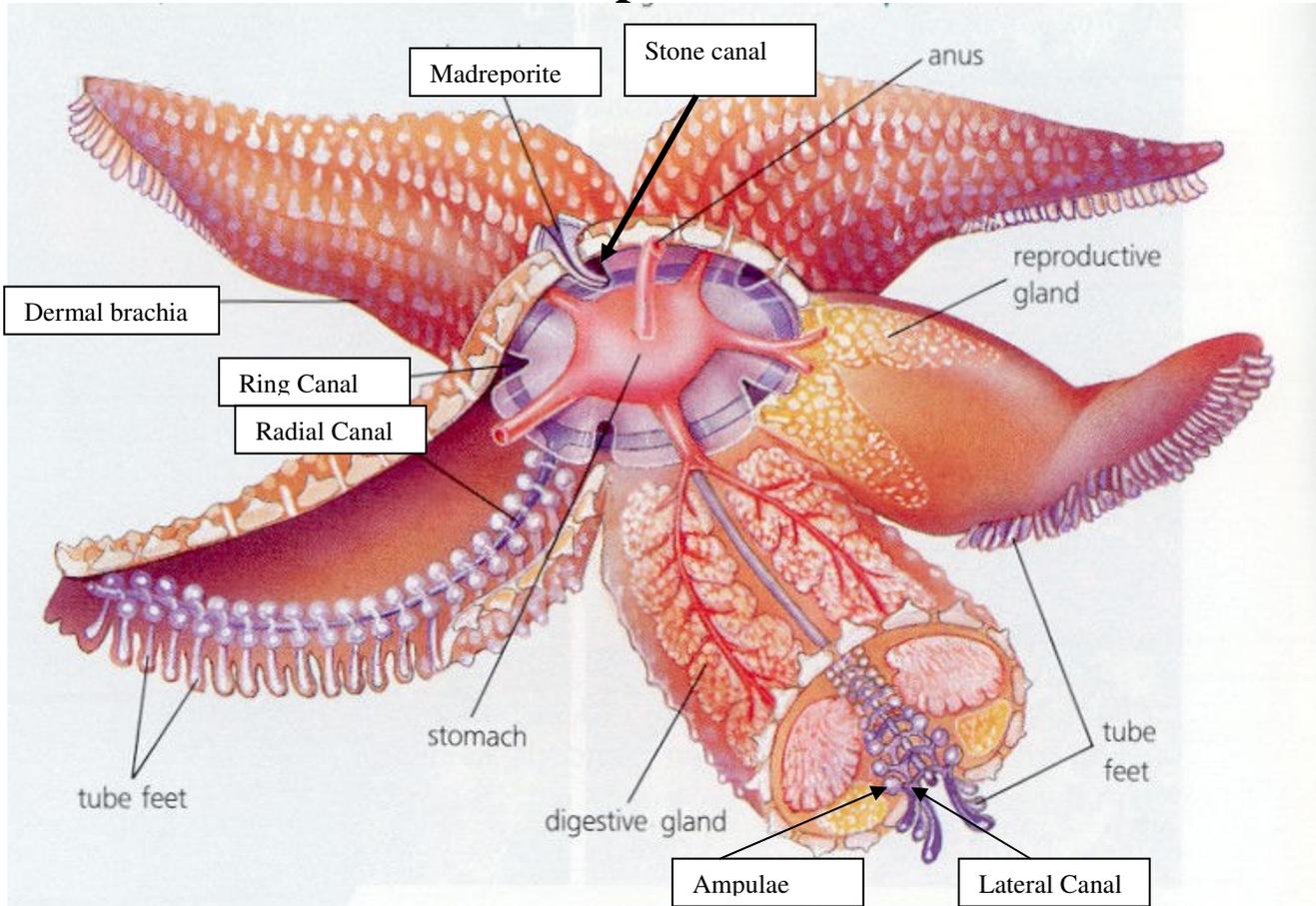# Starfish Dissection Lab 75 points

1. Follow the directions for the dissection as given in the dissection guide.
   a. Basic steps include:
      i. Examine external aboral (dorsal) structures
      ii. Examine external oral (ventral) structures
      iii. Sever arm near central disc and examine
         1. Cut along lateral sides & then along dorsal surface of the severed arm , remove skeleton to observe pyloric ceca & gonads
      iv. Cut laterally around the central disk (without removing the madreporite) and remove small pieces of the dorsal disk surface to expose the internal structures
      v. Observe the parts of the digestive system & reproductive systems
      vi. Gently remove digestive system & reproductive systems and observe an intact water vascular system.
2. **Drawing # 1: Draw and label** external whole specimen dorsal view of your critter labeling the following:
   a. Madreporite
   b. Rays (arms)
   c. Central disc
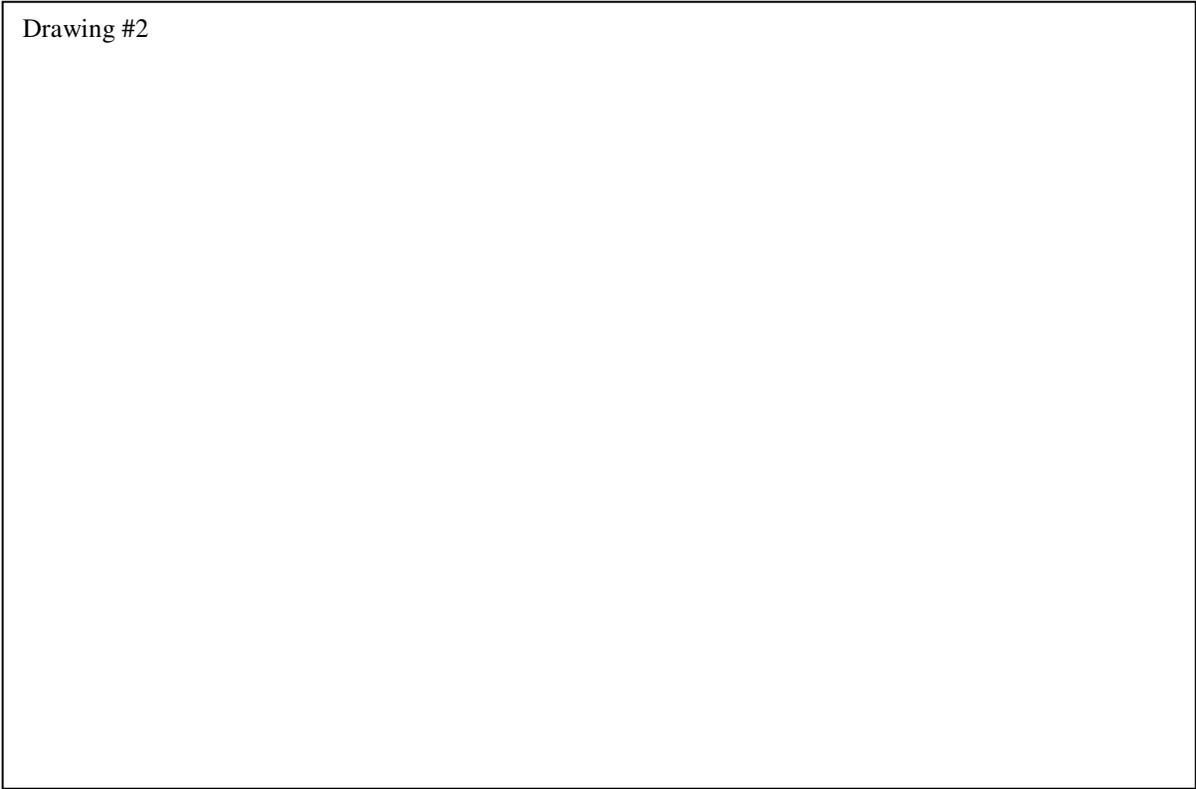   c. Dorsal spines
   d. Anus
   e. Eye spots
   f. Dermal Brachea

3. **Drawing # 2: Draw and label:** the external ventral side of your specimen, include the following:
    a. Mouth
    b. Ambulacral grooves
    c. Tube feet
    d. Eyespot
4. **Drawing #3: Draw and label**: all parts of the water vascular system
    a. Madreporite   d. Radial Canals   g. Tube Feet
    b. stone canal   e. Lateral canals
    c. Ring canal   f. ampullae
5. **Drawing #4: Draw and label** the cross section of the arm
    a. Spine   d. Ossicles   g. Radial Canal
    b. Pyloric Cecum   e. Gonads
    c. Tube Feet   f. Dermal brachia
6. Be able to identify the parts of the digestive, water vascular and reproductive systems as laid out in the dissection guide.
    a. Digestive system:
        i. Mouth – cardiac stomach – pyloric stomach – anus & pyloric cecum
    b. Water Vascular System:
        i. Madreporite – stone canal – ring canal – radial canal – lateral canal – ampulla – tube feet
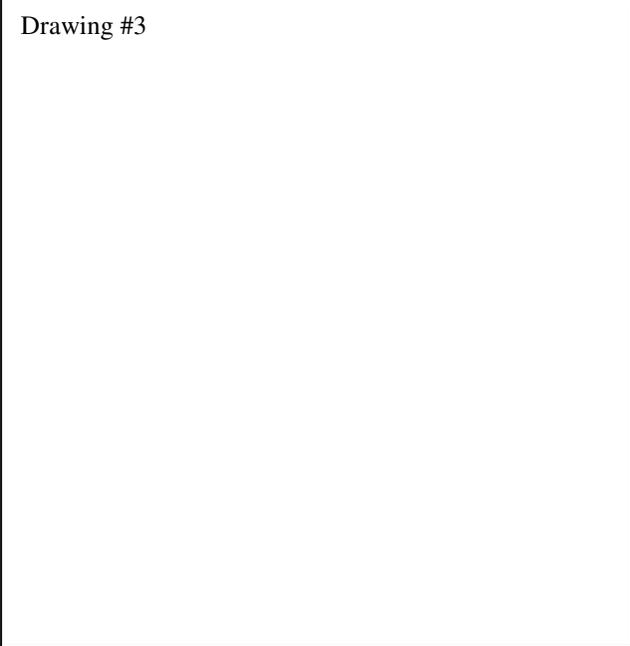   c. Reproductive System
        i. Gonads

Drawing #1

Name: _____ Date: _____

Drawing #2

Drawing #3

Drawing #4