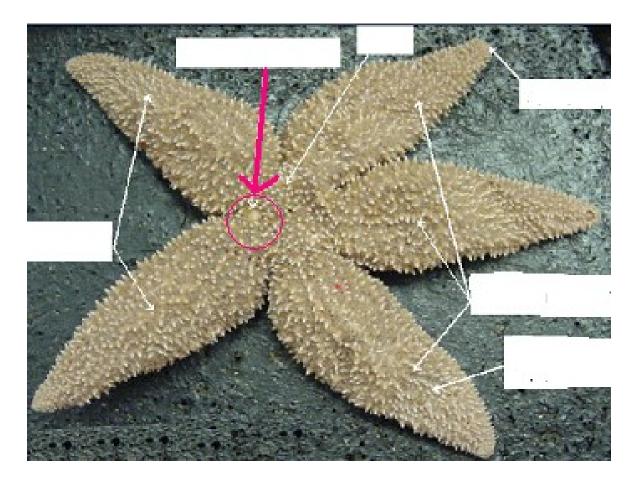
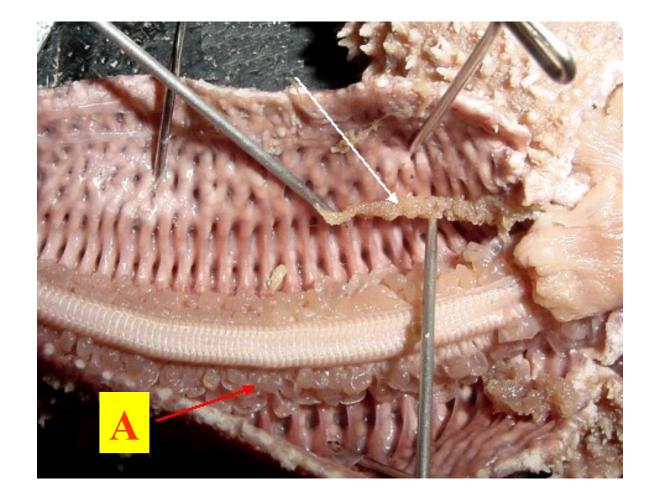
Starfish Parts





This white disc on the aboral surface is the <u>Madreporite</u> Its function is <u>Let water into</u>

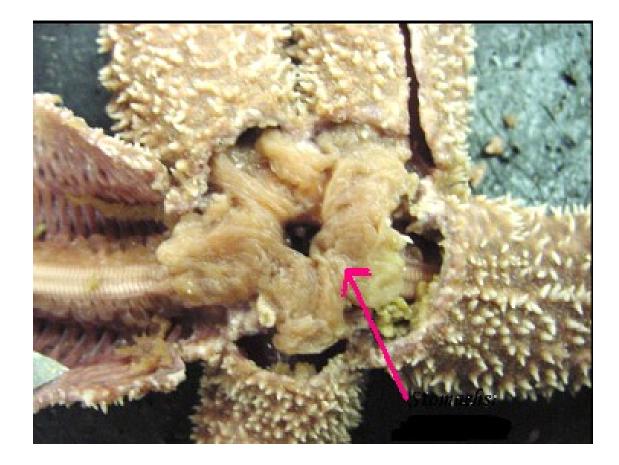
water vascular system



ampulla

Its function is to Squeeze to control water

entering/leaving tube feet

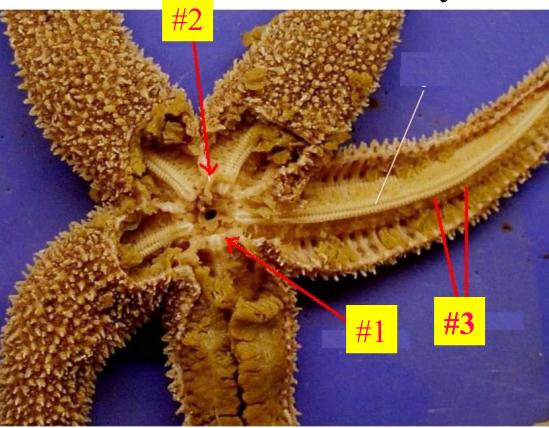


This organ is the <u>stomach</u>

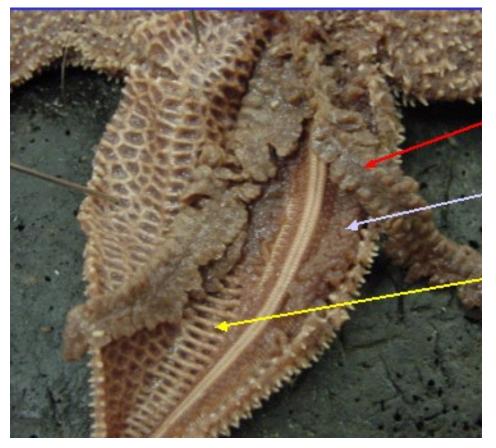
LABEL THE PARTS of the Water Vascular system

#1 = <u>ring</u> canal

#2 = <u>Stone</u> canal



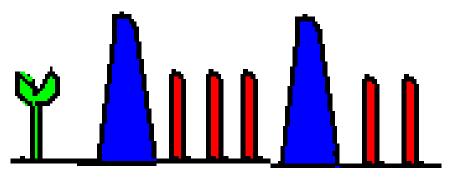
#3 = ampullae



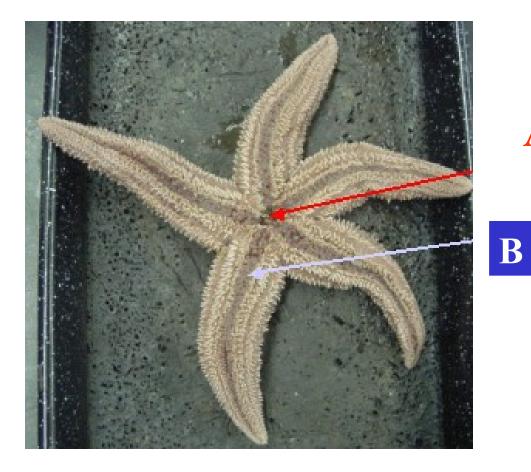
A Digestive glandsB gonads



This diagram represents the 3 structures you learned about on the surface of a starfish.



- The blue structures are spines
- for protection
- The red structures are <u>Skin gills</u>
- for <u>Exchanging gases/removing n</u>itrogen waste
- The green structure is a <u>pedicellaria</u>
- for keeping the surface free of organisms



A mouth

Ambulacral groove with tube feet

These are located in the ambulacral groove

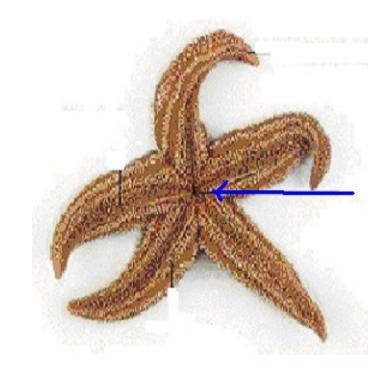
Tube feet

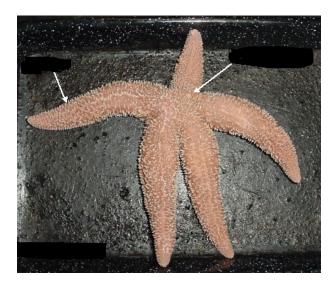


Their function is ?

Locomotion, suction cups can grab food, pry open clam shells, surface can exchange gases and nitrogen waste

This opening on the oral surface is the mouth





This seastar is showing you its <u>aboral</u> surface.

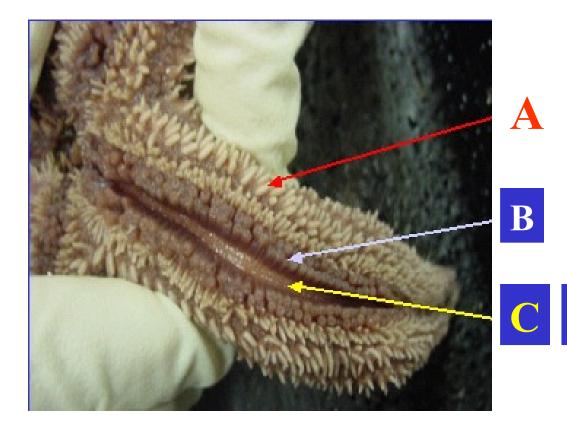
This tube is the **Stone canal**

It has Calcium carbonate

in it to make it hard.

It connects the <u>madreporite</u> to the ring canal

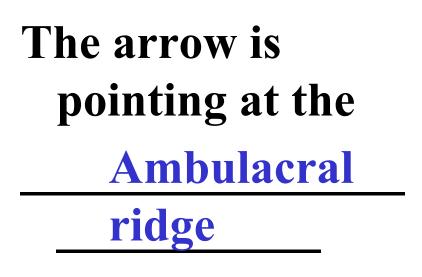


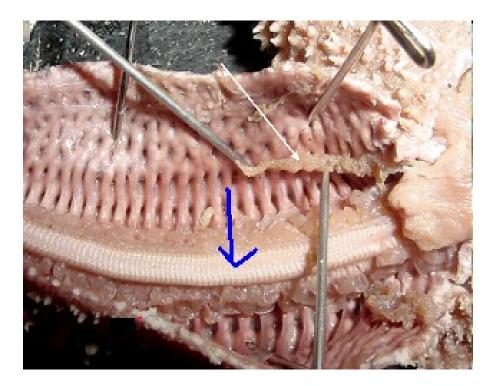


A spines

Tube feet

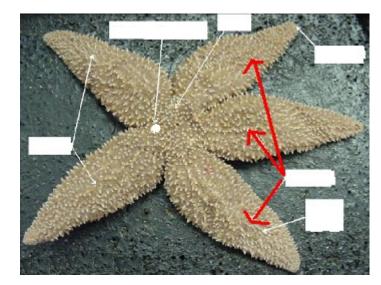
ambulacral groove





The part of the water vascular system that is found inside this ridge is the Radial canal

The part of the nervous system that is found inside is the <u>Radial nerve</u>

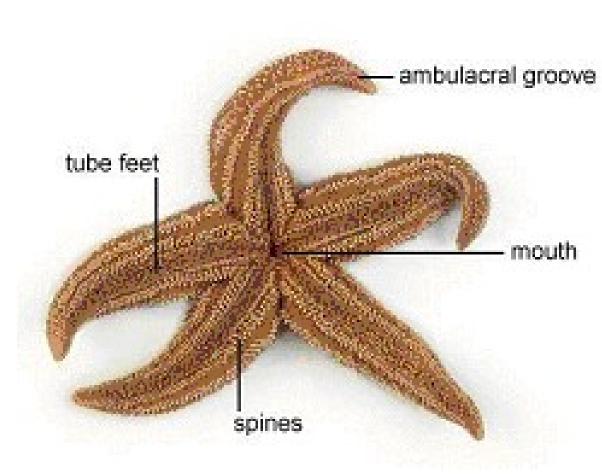


These 3 arms farthest from the madreporite are called the

<u>trivium</u>

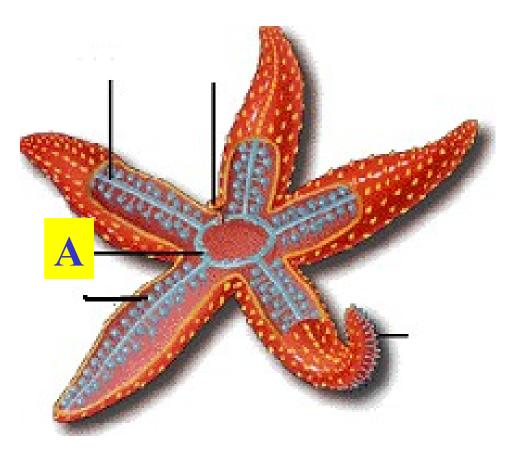
This starfish is showing you its oral

surface.



Identify A

Ring canal



Tell the function of each part:

- **Opening for water** vascular system
- **Absorb nutrients**
- Connect madreporite to ring canal

madreporite

Digestive glands

Stone canal

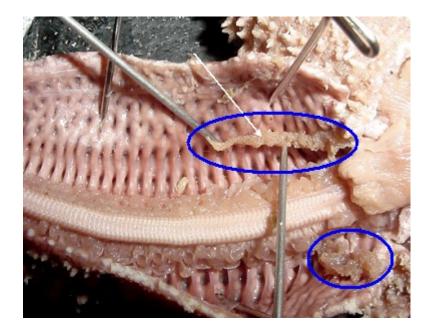
Plates that fuse to form skeleton

Make sperm or eggs

Exchange gases and get rid of nitrogen waste gonads

Skin gills

These structures that lie under the digestive glands are the gonads

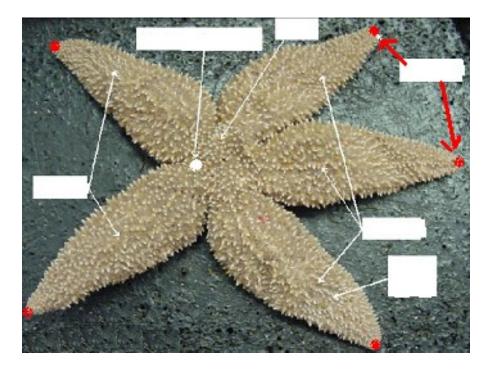


Their function is to Make eggs or sperm

Their body system is <u>reproductive</u>

These are located at the tip of each arm

eyespots



Their function is To sense light and dark

Tell the function of each part:

Keep skin free of organisms	pedicellariae
Extruded out through mouth during feeding	g Cardiac stomach
Stomach that connects to digestive glands	Pyloric stomach
Squeeze to move water up and down in tube feet ampullae spines	

Snikes on surface for protection

This white disc on the aboral surface is the

madreporite

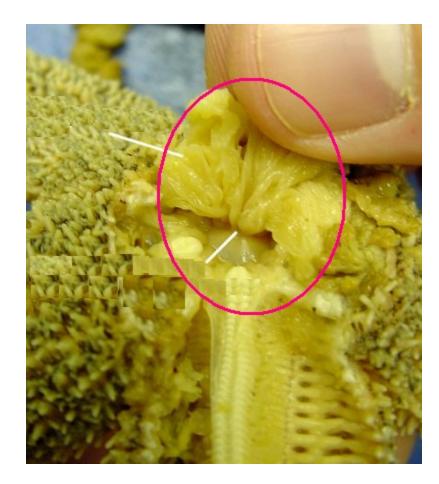
It belongs to the Water vascular

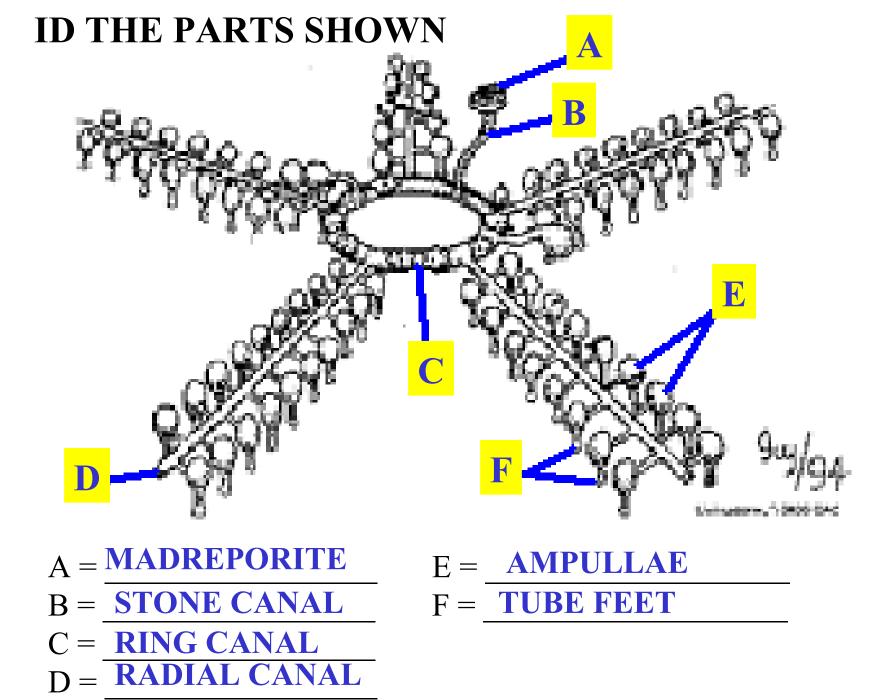
system

Its function
<u>Opening for water entering the WVS</u>

This part of the stomach connects to the mouth

cardiac



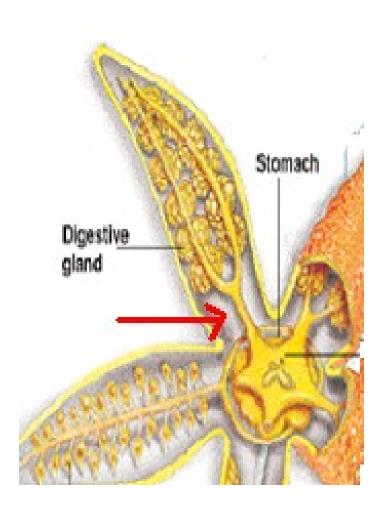


The digestive glands connect to the pyloric stomach.

The cardiac stomach is extruded out of the mouth during feeding

This space around the organs is the <u>coelom</u>

Type of body cavity found in echinoderms

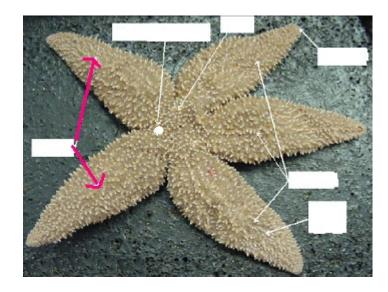


Acoelom Pseudocoelom Eucoelom

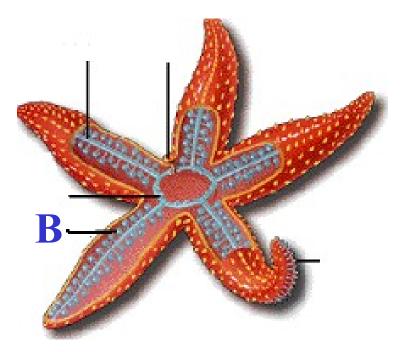


These 2 arms closest to the madreporite are called the

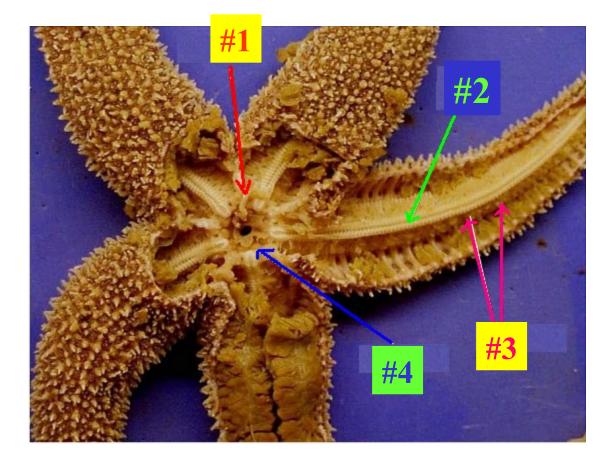
bivium



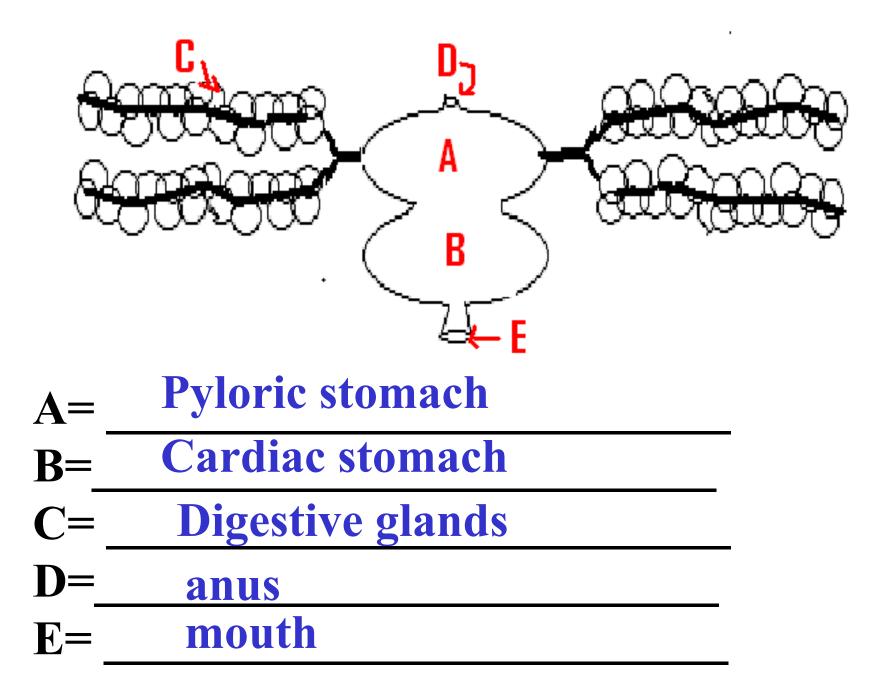
Identify B (seen as bubbles along ambulacral ridge) ampulla



Its function is Squeeze to move water up and down in tube feet



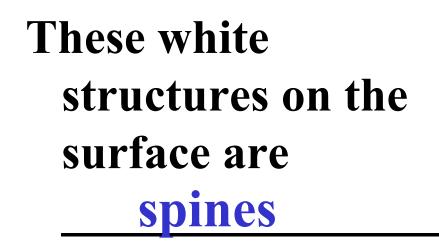
- #1 = **Stone canal**
- #2 = <u>Ambulacral ridg</u>e
- #3 = ampullae
- #4 = **Ring canal**



These greenish brown structures are the <u>Digestive glands</u>



Tell their functions Make bile Finish digestion Absorb nutrients





They connect down below to theskeletonunderneath.

Their function is protection

Echinoderm larva with wings bipinnaria

Type of symmetry seen in the larval form bilateral



Type of symmetry seen in adult echinoderms radial