

WHAT I SHOULD KNOW ABOUT ECHINODERMS

REVIEW:

VOCAB WORDS

Chapter ??s/ Starfish Lab

STARFISH BODY SYSTEM SHEET

WORM/CLAM/STARFISH COMPARISON CHART

ECHINODERMS

*What characteristics are shared by ALL ECHINODERMS?

Which are seen ONLY in echinoderms and NOT IN ANY OTHER ANIMAL?

Echinoderms are the ONLY INVERTEBRATE DEUTEROSTOMES!

STARFISH

* Be able to list Kingdom, Phylum, & Class for STARFISH.

What do the Latin names mean?

Be able to give a function/body system for all parts on Body Systems sheet

*Be able to ID parts in a diagram.

What is cephalization? Do echinoderms have it? What does marine mean?

What is bile? How are nutrients absorbed in a starfish without an intestine?

What is a bipinnaria? How do starfish reproduce?

How do starfish get rid of their nitrogen waste? (through skin gills and surface of tube feet)

What kind of coelom do starfish have? (eucoelom)

Sexual/Asexual reproduction? Hermaphrodites/separate sexes?

Vertebrates/invertebrates? Protostomes/Deuterostomes? Open/closed circulation?

Internal/external fertilization? Direct/Indirect development?

What kind of skeleton do starfish have? What are ossicles?

What is AUTOTOMY? REGENERATION?

How are these used by starfish to survive?

What kind of symmetry do adult echinoderms have?

How is the symmetry of echinoderm larvae different from the adults?

What is the water vascular system? How does it work? What is its function?

Be able to trace the pathway of water through the water vascular system.

What do the typhlosole in an earthworm, gills in a clam, and skin gills in a starfish have in common?(ALL increase surface area)

COMPARISONS

Know what the different body systems do.

What new body system is seen only in echinoderms?

How is nitrogen waste different from digestive waste?

Be able to compare the body systems of CLAMS, EARTHWORMS, & STARFISH

How is a bipinnaria different from a trochophore larvae?

How is the ambulacral ridge different from the ambulacral groove?

Which two structures are found inside the ambulacral ridge? (radial nerve & radial canal)

What structures are found inside the ambulacral groove? (tube feet)