

## Test 2 Review

KNOW YOUR ANIMALS!!! - You should know the following individuals and to which phylum they belong. Know ALL the words on the page and their groups.

### Porifera

Sponges

### Cnidaria

Jellyfish

Coral

Sea anemones

Hydra

### Worms

Flatworms (Platyhelminthes)

Tapeworms

Planaria

Marine flatworms

Roundworms (Nematoda)

Ascaris

Pinworms

Heartworms

Segmented Worms (Annelids)

Earthworms

Polychaetes (Bristleworms)

Leeches

### Mollusca

Bivalves

Clams

Oysters

Scallops

Gastropoda

Snails

Slugs

Cephalopoda

Octopuses

Squids

Nautilus

Cuttlefish

### Arthropoda

Trilobites

Crustaceans

Crabs

Lobsters

Shrimp

Barnacles

Isopods (roll-up/pill bugs)

Arachnids

Spiders

Scorpions

Insects \* Most plentiful!

Know the basic ones

Others

Centipedes

Millipedes

### Echinodermata

Starfish

Basket stars

Sea lilies

Sand dollars

Sea urchins

Sea cucumber

Know the following advancements and body parts: (see Biology Pg. 518 for help)

### Porifera

First cell differentiation – two cell layers, pores, collar cells, both sexual and asexual reproduction. Sessile (non-moving) adults. Be able to diagram and draw the parts of a sponge.

### Cnidaria

Stinging cells (nematocysts), radial symmetry, gastrovascular cavity, two forms – polyps and medusa (polyps are tentacles up and usually stationary, while medusa forms are tentacles down and mobile. They have developed a simple nervous system. Reproduction is asexual and sexual – sometime alternating.

### Worms

Flatworms – Bilaterally symmetrical, no coelom, some are parasites. The tapeworms are flattened with a scolex. Some (planaria) are free-living and some have eyespots. Flatworms have flame cells that are simple excretory organs (like kidneys). Some asexual, mostly sexual reproduction (hermaphroditic) with internal fertilization.

Roundworms – Complete digestive tract. Many parasites. Pseudocoelom. Mostly sexual reproduction (some separate sexes).

Segmented Worms – hearts, true coelom, Closed circulation with hearts. Body segments seem to be ancestral of insects and other species.

### Mollusks

Radula (tongue) for scraping, open circulation, some with high brain function. Mollusks have a shell, except for slugs, and some cephalopods. The nautilus and squid has an internal “pen” for rigidity, but this is lost in the octopus. Mantle present with gills – can serve as lung in snails.

### Arthropods

Exoskeleton with jointed legs. Massive explosion of shelled animals in the Cambrian. Muscles present. Sexual separation, gills in aquatic species and book lungs in spiders. First flight (insects).

### Echinoderms

Tube feet, deuterostome (anus forms first in digestive tract). Endoskeleton and spiny skin. Can evert stomach. Five-part body plan