New Terms - Kingdom Animalia - Invertebrates

invertebrates -	animals without a backbone - includes: jellyfish, sea stars, worms,
	insects, clams, and more.
vertebrates -	animals with a backbone - includes: fish, mammals, birds, and
Porifera -	others
Porliera -	the sponges, characterized by having no symmetry or organs and
	have
C	specialized collar cells.
Cnidaria -	sea anemones and jellyfish, have two different body forms: medusa
	and
1.1 4	polyp
radial symmetry -	defined as having body parts equally arranged regularly around a central
1.1.7	axis - sort of like the spokes on a bicycle.
bilateral symmetry -	- used to describe those animals, where if divided down the middle,
	would have a right and a left half that would be mirror images of each
	other.
nematocysts -	cells that are responsible for defense and capturing in the jellyfish and
	sea anemones, by stinging and stunning the prey.
polyp -	the body form in cnidarians that is tube-like and attached to some
	form
•	of substrate.
medusa -	the bell-shaped form of cnidarians
Platyhelminthes -	the flatworms and tapeworms, first phylum to show cephalization; have
1 1 <i>i</i>	no coelom.
cephalization -	term that describes that one end of an animal is the head
Nematoda -	the roundworms; have a cuticle covering and are scavengers.
pseudocoel -	false coelom
Annelida -	the earthworms and leeches; first phylum to show segmentation;
	have
	excretory devices called nephridia, and a water based hydrostatic
coelom -	skeleton.
coelom -	the main body cavity of most animals with three layers, it is also filled
nonhuidio	with fluid-filled space between the inner and outer layers. funnel-shaped excretory devices found in most every segment of
nephridia -	the
	annelids to remove water and waste.
hudrostatia skalatan	- water based skeleton providing shape and support to the annelids
Mollusca -	snails, clams, and squid; characterized by a mantle, some type of
Wionusca -	modified foot, and bilateral symmetry.
mantle -	a fold of tissue that is draped around the soft fleshy body of the
manue -	a fold of tissue that is draped around the soft fleshy body of the animal.
gastropods -	snails and slugs; literally stomach foot; feed with radula.
bivalves -	clams, scallops, oysters; flattened shells in two halves; are filter-
DIV 41V US -	feeders
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cephalopods -	squid, octopus, nautilus; literally "head foot"; many move by jet
Arthropoda -	propulsion; have large well developed eyes. spiders, crabs, insects; literally "jointed foot"; many go through a process called metamorphosis.
exoskeleton -	an external body skeleton that provides protection and support
antennae -	sensory organs located on the head of arthropods
trachea -	branching networks that are attached to the spiracles and are
	responsible for carrying oxygen to the body of arthropods.
spiracles -	microscopic holes in the bodies of arthropods that open and close
	to
	regulate air flow and water loss in arthropods.
arachnids -	the spiders, scorpions, and ticks; characterized by book lungs for
	respiration.
crustaceans -	shrimps, crabs, lobster; able to regenerate lost or damaged
	appendages
insects -	beetles, bees, grasshoppers, roaches; have special excretory organs
	called Malpighian tubules.
metamorphosis -	process by which a larval form changes into an adult; typically seen in
1.1	butterflies that were caterpillars in their larval state.
molting -	growth process in arthropods that involves shedding the old,
	smaller exoskeleton and secreting a new, larger exoskeleton.
Echinodermata -	sea stars, sea urchins, sand dollars; literally "spiny skin"; noted for the
endoskeleton -	water vascular system. internal support skeleton found in the echinoderms
	m - system of canals in echinoderms that contain fluid which is supplied
water vascular syste	to the tube feet for feeding and movement.
Chordata -	phylum characterized by animals that have a notochord, nerve
Chordata	cord,
	pharyngeal gill slits, and a tail that extends beyond the anus in some
	point of its development.
notochord -	long rod of stiffened tissue that helps support the body.
nerve cord -	runs parallel to the notochord and develops into the brain and
	spinal
	cord.
pharyngeal gill slits	- paired organs that are used for respiration, feeding, or both.
Urochordata -	the sea quirts, the invertebrate chordates
chelicerae -	specialized appendages in the form of claws in some arthropods.
compound eye -	an eye made up of many small eyes, like those seen in the insects.
10	- excretory devices in arthropods
ganglia -	bundles of nerve found along the ventral nerve chord in some
141 1	arthropods.
mandibles -	in arthropods they are a pair of specialized appendages that form
	part of the mouth and are used for emphine feed
	the mouth and are used for crushing food.