

Note-taking Invertebrate Animals

Date

What is an animal? **Section 1**

A. <i>A</i>	imal characteristics— features
1	Composed of many eukaryotic, must find and digest their own, and
	usually can
2	
	a symmetry—parts are arranged in a circle around a central point
	b. symmetry—parts are mirror images of each other
	c
B. A	imal classification—placed into groups
1	
2	
Sec	on 2 Sponges, Cnidarians, Flatworms, and Roundworms
A. S	onges—don't move to find food since adults are or stuck in one place
1	Filter
	a let water into central cavity.
	b. keep water moving through sponge.
2	Soft sponge bodies are protected by sharp or rubbery
3	Sponges sexually and asexually.
	a. In reproduction a new sponge grows from pieces of an old sponge
	b. Most sexually reproducing sponges are, producing both eggs and sperm.
В	—have tentacles and hollow bodies
1	Two shapes
	a cnidarians are usually sessile and have vase-shaped bodies
	b. A body is free-swimming and bell-shaped
2	Cnidarians both sexually and asexually.
	a. Polyp forms reproduce asexually by
	b. Some polyps also reproduce sexually by releasing or
	c. Medusa forms have astage life cycle in which they reproduce both sexually and asexually.

Note-taking Worksheet (continued)

C. Flatworms—_____ for their food 1. Have long, flattened bodies with _____ and systems 2. Most are _____ living off or in a host. **3.** _______ —a type of flatworm **a.** Lack a ______ system and absorb nutrients from the host's intestines **b.** Tapeworms reproduce ______. **1.** Body is a _____ within a tube. 2. _____ has both a mouth and an anus. **3.** ______ vary with some roundworms being decomposers, some predators, and some parasites. Section 3 Mollusks and Segmented Worms **A.** Characteristics of ______minvertebrates usually with shells protecting their soft bodies, mantle, and muscular foot **2.** Lungs or _____ exchange carbon dioxide from the animal for oxygen in the air or water. 3. Many mollusks use a ______, a scratchy tongue-like organ, to help them eat **4.** Some mollusks have an _____ circulatory system which washes blood over organs and lacks blood vessels. **B.** Types of Mollusks 1. _____ shell **a.** Live in _____ or on ____ **b.** Move by gliding their large muscular foot across a trail of _____ **2.** _____have two shells a. Large _____ open and close shell halves **b.** Water animals that _____ **c.** Use ______ to remove foot from water **3.** _____have no shell a. Have a foot divided into _____ with suckers

b. Move by using a mantle to quickly squeeze water through a funnel-like _____

c. Have a _____ circulatory system with blood vessels

Name Date Class

Note-taking Worksheet (continued)

Se	egmented Worms—also called, have repeating segments,	a closed
ciı	irculatory system, and digest food in a complete system with two opening	ţs
1.	have more than 100 body segments	
	a. User External bristle-like and muscles to move	
	b. Eat organic in soil	
	c. Exchange carbon dioxide and oxygen through mucus-covered	
2.	—have flat bodies with sucking disks at both ends	
	a. Attach to animals and remove for food	
	b. Can enormous amounts of food for months	
3.	-use bristles or setae for moving	
	a. Some marine worms are feeders.	
	b. Some eat or rotting material.	
	c. Some marine worms are predators or	
	2	 b. Eat organic in soil c. Exchange carbon dioxide and oxygen through mucus-covered 2 have flat bodies with sucking disks at both ends a. Attach to animals and remove for food b. Can enormous amounts of food for months 3 enormous amounts of food for months a. Some marine worms are feeders. b. Some eat or rotting material.

Section 4 Arthropods and Echinoderms

A.		—have appendages such as claws, legs, and antennae plus an exoskeleton
	1.	Insects—such as ants have three body regions called the head, the, and the abdomen
		a. Open circulatory system transports food and waste but gather oxygen.
		b. Insects change body form in process called
	2.	—such as spiders have two body regions called the cephalothorax and the abdomen plus four pairs of legs
	3.	Centipedes and millipedes—long, thin, segmented animals
		apredators with one pair of jointed legs per segment
		b. plant eaters with two pairs of jointed legs per segment
	4.	—water animals such as lobsters usually having two pairs of antennae, three types of chewing appendages, and five pairs of legs
B.		have radial symmetry
	1.	vary—some are predators, some are filter feeders, some eat rotting material
	2.	Echinoderms have skin covering an internal skeleton of plates.
	3.	Echinoderms have a system to help them move and eat.
	4.	Some echinoderms can reproduce through from parts.