Name_

Date

Class

Sponges, Cnidarians, and Worms

Review and Reinforce

What Is an Animal?

Understanding Main Ideas

Fill in the blank ovals to complete this concept map.





Building Vocabulary

From the list below, choose the term that best completes each sentence.

cells	vertebrates
adaptations	asexual reproduction
phyla	fertilization
organ	invertebrate

5. A group of several different tissues is called a(n) _____Organ

- 7. <u>fertilization</u> is the joining of an egg cell and a sperm cell.
- 8. <u>Vertebrates</u> are animals that have a backbone.
- 9. <u>cells</u> are the basic units of structure and function in living things.
- 11. An animal without a backbone is called a(n) <u>invertebrate</u>
- 12. <u>asexual</u> <u>reproduction</u> is the process by which a single organism produces a new organism identical to itself.

Date_

Class

Sponges, Cnidarians, and Worms • F

Review and Reinforce

Animal Symmetry

Understanding Main Ideas

Classify the following animals as having no symmetry, bilateral symmetry, or radial symmetry. If the animal has only one line of symmetry, draw the line. Write your responses on the lines below the animals.



Building Vocabulary

From the list below, choose the term that best completes each sentence.

nany pilateral symmetry	radial symmetry	y
Shateral Symmetry	one	
7. If an animal has a head end and a	a tail end, it has fry	
8. All animals with <u>radial</u>	symmetry	live in water.
9. Animals with radial symmetry has symmetry that go(es) through a control of the symmetry through a control of the sy	ave <u>Many</u> central point.	line(s) of
10. Animals with bilateral symmetry line(s) of symmetry that divide(s	have <u>one</u>) them into two parts.	

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Sponges, Cnidarians and Worms

Name Class Sponges, Cnidarians, and Worms . Review and Reinforce Sponges and Chidarians Understanding Main Ideas Answer the following questions on a separate sheet of paper. 1. What function does water perform for sponges? carry food & oxygen, takes away waste. Aids in S reproduction 2. How does a sponge defend itself? spikes within its skeleton Describe two methods of sponge reproduction. A sexual - budding Sexual - Egg i Sperm released. Larva forms.
 In the diagram, identify the two different body plans of cnidarians. Where is the mouth on each? Which animal probably swims? Mouth is between the tentacles for both. Mouth opens up. Mouth opens Β. Α. down. Swims Body Plan: Medusa Body Plan: Polyp 5. How do cnidarians reproduce? Polyps can do budding (asexual). Or they reproduce 6. Describe how a coral reef is formed. Some go through both in their life cycle Coral polyp attachs to solid surface. It forms a hard skeleton Building Vocabulary around its soft body. More & more formed asexually & neef grows. Write an answer for each of the following questions in the spaces provided. 7. Explain what cnidarians are by describing how they feed and what kind of environments they live in. Give three examples. Tentacles bring food Use stinging cells to capture food. live in oceans. Some live in Freshwator to its Most sea anomones. Portuguese Man o' War Examples: Jellytish, corals, 8. What is a larva? Immature form of an animal that looks very different from the adult 647.

Date

Class

Sponges, Cnidarians, and Worms • Review and Reinforce

Worms

Understanding Main Ideas

If the statement is true, write true. If it is false, change the underlined word or words to make the statement true.

F	1.	Three major phyla of worms are flatworms, roundworms, and <u>tube worms</u> . Segmented worms.
F	2.	Worms reproduce and sexual reproduction. and asexual rep.
	3.	Worms are the simplest organism with a <u>brain</u> .
	4.	Planarians are nonparasitic <u>flatworms</u> .
F	5.	Tapeworms are parasitic segmented-worms. Flatworms
<u>T</u>	6.	Planarians have <u>one</u> opening in their digestive system.
F	7.	Roundworms have a <u>two-way</u> digestive system.
T	8.	Worms have <u>bilateral</u> symmetry.
	9.	Earthworms are <u>segmented</u> worms.
F	10.	<i>closed</i> Earthworms have a(n) <u>open</u> circulatory system.
T	11.	Earthworms must keep their skin <u>moist</u> .

Building Vocabulary

Match each term to its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- <u>b</u> 12. scavenger
- <u>e</u> 13. anus
- _____ 14. parasite
- <u>d</u> 15. free-living organism

- a. Organism that gets its food from living in or on another organism
- b. Organism that feeds on dead or decaying material
- c. Organism in or on which another organism lives and gets its food from
- **d.** An organism that does not live in or on other organisms
- e. Opening through which wastes exit in a one-way digestive system

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Mollusks, Arthropods, and Echinoderms . Review and Reinforce

Mollusks

Understanding Main Ideas

Complete the table below with information about mollusks.

	Gastropods	Bivalves	Cephalopods
Common Example	Snail, Slug	Clam	Squid
How do they eat?	Radula, can be herbivores, scavenges.	Filter Feeders	carnivores capture w/ tentacles.
How do they move?	Creeping by ouzing on muces	Lavae float/swim Adults sessile or move slowly w/feed	Jet Propulsion
Do they have a shell?	single or None	2 shells	some-external some-internal some-none
Adaptations of their feet	Crawling	Digging	Catching Prey

Building Vocabulary

From the list below, choose the term that best completes each sentence.

omnivore	cephalopod	bivalve
radula	gills	gastropod

- 1. A row of tiny teeth found in gastropods and cephalopods is called a radula
- 2. The most intelligent group of mollusks is the <u>cephalopod</u> group.
- 3. A(n) <u>omnivore</u> _____ eats both plants and animals.
- 4. A bivalve is a two-shelled mollusk.
- 5. A snail is a gastropod
- 6. Most water-dwelling mollusks have ______ organs that remove oxygen from water.

Mollusks, Arthropods, and Echinoderms · Review and Reinforce

Arthropods

Name

Understanding Main Ideas

Read each description. Decide which animal group best fits each question. Write your answers on a separate sheet of paper.

- 1. They are invertebrates with an exoskeleton, segmented body, and jointed appendages. They have an open circulatory system and reproduce sexually. Their name comes from the Greek for "joint-leg." What are they?
- Arthropods 2. They have highly segmented bodies with one pair of legs attached to each segment. They are predators with venom. Some of them have more than Centipedes 100 segments. What are they?
- 3. They all have two body sections and eight legs. Some of them are predators with fangs or a stinger; others are parasites. None of them have antennae. What are they?
- 4. They have segmented bodies with two pairs of legs on each segment. Most eat decaying leaves. They curl up into a ball when something Millipedes disturbs them. What are they?

Building Vocabulary

From the list below, choose the term that best completes each sentence. Use each term only once.

abdomen	exoskeleton	molting
antennae	metamorphosis	
 An arthropod's <u>exe</u> drying out. The heads of some arthr contain sense organs. Some animals go throug during their life cycle in 	skeleton copods have <u>ar</u> ch a process called which their bodies	protects it and keeps it from <u>ntennae</u> , which <u>metamorphosis</u> undergo dramatic changes in
form as they develop. 8. The hind body section of	of an arachnid is ca	lled its
abdomen		
9. The process of shedding Molting	g an outgrown exos ·	keleton is called

Name	Date	Class
Mollusks, Arthropod	s, and Echinoderms 🔹 Review and	Reinforce
Insects		
Understanding Ma Answer the following q	in Ideas uestions.	>
I. How many body s Sketch an insect of parts on your sket	ections does an insect have? a separate sheet of paper. Name and ch.	S label the body
2. How many legs do them on your sket	bes an insect have?6	Show
3. List two other feat and label them.	res that most insects have. Show them ntennae, Wings	n on your sketch,
I. Name two ways the <u>sponge - like</u> <u>coiled tu</u> Sharp edg Building Vocabule	at insect mouthparts are used for feed <u>mouthparts</u> for lapping <u>be</u> for sucking (nectar) ed for cutting/chewing ry	ding. 9
From the list below, cho	pose the term that best completes each sent	tence.
horax	nymph gradual m	etamorphosis
complete metamorph	iosis pupa	•
5. The wings and leg	s of an insect are attached to the	•
5. The four stages of	<u>complete</u> <u>metamorphosis</u> in order a	are egg, larva,
7. In the pattern of d young insect, calle miniature adult.	evelopment known as gradual meta ed a <u>NYMJSh</u> , looks	morphosis, the much like a
•	· · · · · · · · · · · · · · · · · · ·	

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Mollusks, Arthropods, and Echinoderms • Review and Reinforce

Echinoderms

Understanding Main Ideas

Write the letter of the correct answer on the line at the left.

- <u>*C*</u> 1. Which of the following is *not* a characteristic of echinoderms?
 - **a.** 5-part radial symmetry
 - **b.** endoskeleton
 - **c.** live in freshwater
 - d. water vascular system
- **2**. Which of the following is *not* an echinoderm?
 - a. fiddler crab
 - b. brittle star
 - c. sea urchin
 - d. sea cucumber
 - **<u>1</u>** 3. Which of the following is *not* a function of tube feet?
 - a. move along ocean floor
 - b. catch food
 - c. grip surfaces
 - d. digest food

4. The life cycle of an echinoderm includes all of the following except

- a. eggs
- b. metamorphosis
- c. asexual reproduction
- d. fertilization

Answer the following.

5. Describe how a sea star captures its food. using its tube feet all 5 arms dam with Trasos a aris. clam open E torior digests the clam in nouth and Stomach digested clam. Clam's shells. Building Vocabulary the Then sucks partially IN

Fill in the blank to complete each statement.

- 6. The water vascular system consists of fluid-filled tubes within the echinoderm's body.
- 7. An echinoderm has a(n) <u>endoskele ton</u> that supports its body.
- 8. Animals in the <u>*Echino dermata*</u> phylum are radially symmetrical invertebrates that live on the ocean floor.