Name

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nges, Cnidai and Worms

3

Sponges, Cnidarians, and Worms • Key Terms

# **Key Terms**

Answer the questions by writing the correct Key Terms in the blanks. Unscramble the circled letters from each term to find the hidden Key Terms. Then write a definition for the hidden Key Terms.

1. What is an animal without a backbone?



2. What is a bowl-shaped cnidarian that is adapted for swimming?



3. What is a basic unit of structure and function found in all living things?



4. What is the symmetry shown by objects if there is one line that divides the object into halves that are mirror images?

5. What does a group of different tissues form?

6. What is an animal that has a backbone?

7. What is an organism that lives inside or on another organism?

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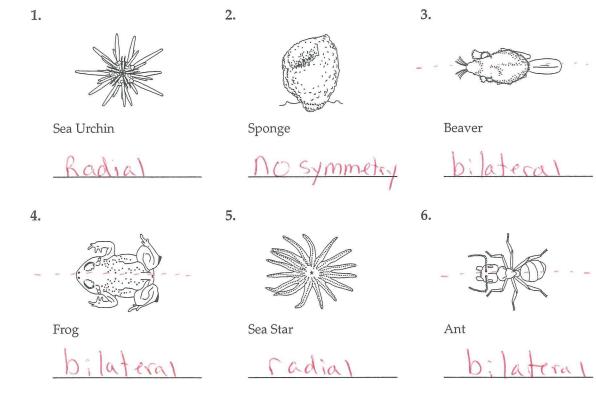
Sponges, Cnidarians, and Worms 

 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.* 

many	radial symmetry	
bilateral symmetry	one	
7. If an animal has a head end and a tail end, it has bilateral symmetry.		
8. All animals with <u>factual</u> Sym	metrylive in water.	
<b>9.</b> Animals with radial symmetry have symmetry that go(es) through a central p		
10. Animals with bilateral symmetry have		

and Worms iges, Cnidar ians

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Sponges, Cnidarians, and Worms 
 Review and Reinforce

## Worms

### **Understanding Main Ideas**

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

<u>LCOM</u>S1. Three major phyla of worms are flatworms, roundworms, and <u>tube worms</u>.

- 2. Worms reproduce <u>only through sexual reproduction</u>.
- 3. Worms are the simplest organism with a <u>brain</u>.
- 4. Planarians are nonparasitic <u>flatworms</u>.
  - 5. Tapeworms are parasitic segmented worms.
- 6. Planarians have <u>one</u> opening in their digestive system.
- 7. Roundworms have a <u>two-way</u> digestive system.
- 8. Worms have <u>bilateral</u> symmetry.
- 9. Earthworms are <u>segmented</u> worms.
- **10.** Earthworms have a(n) <u>open</u> circulatory system.

\_\_\_\_\_ 11. Earthworms must keep their skin moist.

## **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.

- D 12. scavenger
- 🔨 13. anus
- \_\_\_\_\_ 15. free-living organism
- \_\_\_\_\_ 16. host

- 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

Name\_\_\_\_\_

Class

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 islug	ciams,	Squid
How do they eat?	gerther food w/rochula	Silter feed	tentacles
How do they move?	foot	foot or sourt	Jet propulsion
Do they have a shell?	No	2	some do
Adaptations of their feet	broad for creeping	thin for digging	are tentroles

## **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
- 2. The most intelligent group of mollusks is the <u>Cephalopod</u> group.
- 3. A(n) \_\_\_\_\_\_ eats both plants and animals.
- 4. A bivale is a two-shelled mollusk.
- 5. A snail is a gaskopod
- 6. Most water-dwelling mollusks have \_\_\_\_\_\_, organs that remove oxygen from water.

ollusks, Arthropods and Echinoderms

Name I	Date	Class
Mollusks, Arthropods, and Echinodern	ns ▪ Review ar	
Insects		there men
<b>Understanding Main Ideas</b> Answer the following questions.		antimerry had thereit ablomen
<ol> <li>How many body sections does an insection section and separate sheet of parts on your sketch.</li> </ol>	of paper. Name ai	nd label the body wings
2. How many legs does an insect have? them on your sketch.	?(o	Show
3. List two other features that most inse and label them. Exos Keledon, wings, a		em on your sketch,
4. Name two ways that insect mouthparents for Lap Space for Sucking	Pro used for fe	ider i no
Building Vocabulary		hin
From the list below, choose the term that be		
thorax nymph complete metamorphosis pupa	gradual	metamorphosis
5. The wings and legs of an insect are a	attached to the	
6. The four stages of <u>mitamos pho</u> <u>pupa</u> , and adu	in order ilt.	r are egg, larva,
<ol> <li>In the pattern of development known young insect, called a</li></ol>	nas gradual	, the ks much like a

Date

Class

Mollusks, Arthropods, and Echinoderms • Key Terms

## **Key Terms**

*Use the clues to help you unscramble the Key Terms from the chapter. Then put the numbered letters in order to find the answer to the riddle.* 

## Clues

**Key Terms** 

It's a dramatic change in an ashosmtemopri <u>Metamorphosis</u> animal's body. It looks like a myphn AYMPL small adult. It's a flexible ribbon dalaru  $\int \alpha \alpha \mu \mu \alpha$ of teeth. It's shedding an outgrown throwing M o f + i ngexoskeleton. It's a mollusk with sogpotdar <u>q <u>a</u> <u>s</u> <u>f</u> <u>o</u> <u>p</u> <u>o</u> <u>d</u></u> one shell or none. It's a soft-bodied invertebrate with a skulmlo <u>MOILUS K</u> mantle and a foot. It's the hind section omabude <u>abdomen</u> of an arthropod. It's an animal that carries pollen from intorpallo  $p o l l p \alpha t o c$ one plant to another. It's an animal with nehroicmde <u>echinoder</u> m a water vascular system. It's the middle section rxaoht  $\frac{1}{10}$   $\frac{1}{10}$   $\frac{1}{10}$   $\frac{1}{10}$   $\frac{1}{10}$   $\frac{1}{10}$ in insects. It's on the head and neantan <u>antenna</u> has sense organs. Riddle: What are the calcium plates that support echinoderms?

Answer:  $\underbrace{e}_{1} \underbrace{n}_{2} \underbrace{d}_{3} \underbrace{0}_{4} \underbrace{s}_{5} \underbrace{K}_{6} \underbrace{e}_{7} \underbrace{l}_{8} \underbrace{e}_{9} \underbrace{1}_{10} \underbrace{0}_{11} \underbrace{n}_{12}$ 

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Class

Fishes, Amphibians, and Reptiles • Review and Reinforce

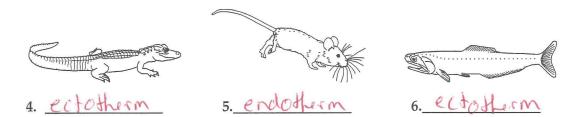
# What Is a Vertebrate?

## Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

- 1. What three characteristics do all chordates share? Notochord, dorsal nerve, gillslits
- 2. What is a vertebrate? has a backbone
- 3. What are three functions of an endoskeleton? protect, give shape, gives muscles a

State whether the following animals are ectotherms or endotherms. Write your answer on the line provided.



## **Building Vocabulary**

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

chordates	vertebra	endotherm
notochord	ectotherm	
7. The body of a(n)	ectotlesm pody temperature changes	_ doesn't produce much
temperature of its		s depending on the
8. The body of a(n)		regulates its temperature.
	eep the <u>No to Chose</u> aced by a backbone.	all their lives, while
10. One of the bones	of the spinal column is ca	alled a(n)
11 Vortabratas ana a	have a star a	mourn as the

11. Vertebrates are a subgroup of the phylum known as the

Name		Date	Class	
Fishes, Amphibians, and Reptiles		Review and Reinforce		

# Amphibians

## **Understanding Main Ideas**

Answer the following questions in the spaces provided.

- 1. How do salamanders obtain food? How does blood move in a tadpole's circulatory system? How does it move in an adult's circulatory system?
  - Jadpole one-loop w/ 2 chambered hart.
- 2. How do frogs and toads obtain food? Whit until food comes close and then they gab it.
- 3. What are two adaptations amphibians have for moving on land? Strong Skeletons and Muscular limbs
- 4. Identify two factors that are probably responsible for the decline in amphibian populations.

## **Building Vocabulary**

Write an answer to the questions below in the spaces provided.

- 5. What is an amphibian? Ectothermic vertebrates that spend larval stage in water
- 6. What is a tadpole? Larval form of frag ar bond
- 7. What are the names of the two types of chambers in an amphibian's heart?
- 8. What is an animal's habitat? Where an animal live s

-	
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	10

Fishes, Amphibians, and Reptiles • Review and Reinforce

# Vertebrate History in Rocks

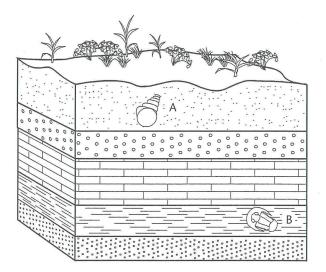
## **Understanding Main Ideas**

Name

Answer the following questions on a separate sheet of paper.

- 1. How are sedimentary rocks formed? When layers at Sediment harden
- 2. What can paleontologists learn about present-day organisms from the study of fossils? Learn about relationships between organisms & when they
- 3. Describe two ways a paleontologist determines the approximate age of a fossil. From position in ruck layers

Use the diagram below to answer the question that follows.



4. Based on its position in the rock, which fossil is probably older? How do you know? B - is deeper

## **Building Vocabulary**

Write the term that best completes each sentence.

- 5. A <u>Paleontologist</u> is a scientist who studies the remains or other evidence of things that lived in the past.
- is the hardened remains or other evidence 6. A JOSSi of an organism that died long ago.
- 7. Over many, many years, layers of clay, sand, mud, or silt may harden into Sidiminitary rock.

Name \_\_\_\_

Date\_\_\_

and Reptiles

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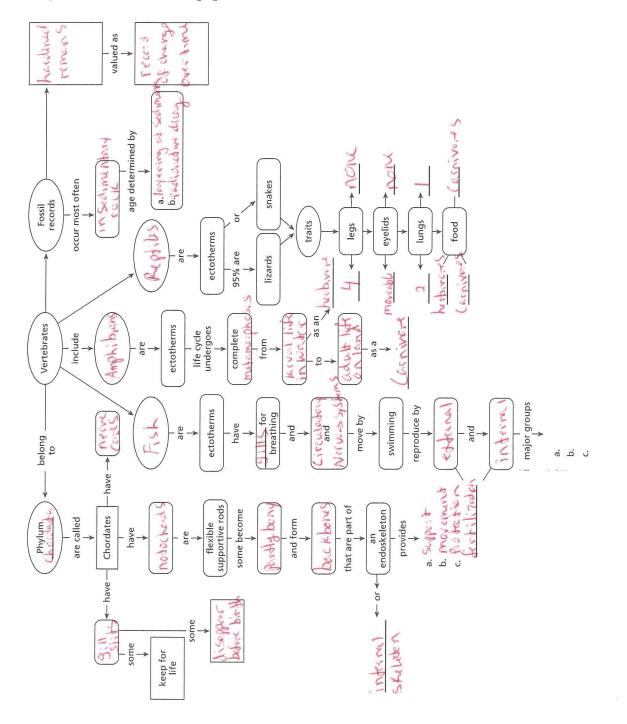
Amphibia

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Fishes, Amphibians, and Reptiles • Connecting Concepts

# **Connecting Concepts**

Develop a concept map that uses the Key Concepts and Key Terms from this chapter. Keep in mind the big idea of this chapter. The concept map shown is one way to organize how the information in this chapter is related. You may use an extra sheet of paper.



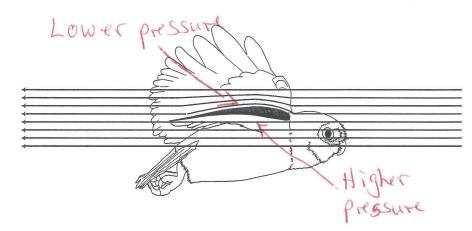
Birds and Mammals 

 Review and Reinforce

# **The Physics of Bird Flight**

### **Understanding Main Ideas**

1. The diagram below shows the wing on a bird that is moving from left to right. Indicate on the diagram the area of lower air pressure and the area of higher air pressure.



Answer the following questions.

- 2. What in air causes air pressure? Air melecules pushing
- 3. How is the speed of moving air related to its air pressure? Suster = less pressure
- 4. Which do you think would experience more lift, the wing of a slow-flying bird or the wing of a fast-flying bird? Explain your reasoning.
- 5. Classify the three types of flying—flapping, soaring and gliding, and diving—as using either a lot of energy or not much energy.

apping - more energy 2MIZIDE envas

## **Building Vocabulary**

Write a definition for the following term.

6. lift causes the bird to rice

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Birds and Mammals • Key Terms

# **Key Terms**

Solve the clues by filling in the blanks with Key Terms from the chapter. Then write the numbered letters in the correct order to find the hidden word.

## Clues

#### **Key Terms**

Endothermic vertebrate with a four-chambered heart and skin covered with fur or hair

An internal storage tank in a bird

Helps birds balance and fly

Upward force on a bird's wing

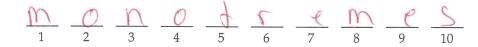
Large muscle that helps mammals breathe

Organ that passes materials between mother and developing embryo

Koalas, kangaroos, and opossums

The length of time between fertilization and birth

Hidden Word:



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$$\frac{mammal}{Crep}$$

$$\frac{Crep}{2}p$$

$$\frac{Contour feather}{4}$$

$$List$$