	Class	Date
Skills Worksheet		
Active Reading		
<u> </u>		
Section: Evolution		
lead the passage below and answ	ver the questions t	that follow.
Resistance is the ability of particular chemical design ant to a chemical when it is the chemical down into ha pests and bacteria with chemical down into ha pests and populations. Consider the evolution pests. A pesticide is sprayed the grasshoppers die, but a have a gene that protects to insects pass on the gene to sprayed, the insect populations are produced. After may be resistant, making the organism reproduces, the second control of the particular design and the pests and bacteria with chemical design and the chemical design and the chemical down into ha pests and bacteria with chemical down into ha pests and has a pests and	ted to kill it. An or contains a gene the transfer substance the emicals, humans per of pesticide resisted on corn to kill gas few survive. The them from the pesticide to inchanges to inchange to inchange to the pesticide useles.	ganism may be resistat allows it to break s. By trying to control promote the evolution tance among corn grasshoppers. Most of survivors happen to sticide. The surviving Each time the corn is clude more and more see entire population ess. The faster an
DENTIFYING MAIN IDEAS		
One reading skill is the ability to it dea is the main focus or key idea upporting information that offer	a. Frequently, a ma s detailed facts ab	in idea is accompanied by out main ideas.
Read each question and write the	-	-
1. When might an organism be re	esistant to a chem	icai:

4. Write a sentence using the word *resistance*.

Name		Class	Date
Acti	ve Reading continued		
CEOU	IENCINIC INFORMATION		
One r	eading skill is the ability ents in the order in which	to sequence information	n, or to logically place items
resist	ence the statements below ance to pesticides. Write In front of the second step	"1" on the line in front o	nsects' development of of the first step, "2" on the
	_ 5. Remaining grassho	ppers reproduce, passing	g on the resistant gene.
	_ 6. Corn is sprayed with	th a pesticide.	
	_ 7. Some grasshoppers	s survive.	
	_ 8. The pesticide is ren	ndered useless after man	ny sprayings.
	_ 9. The survivors' offsp	oring are sprayed again.	
	-	ng each spraying and re	esistant members of the eproducing.
One r	eading skill is the ability	to recognize cause and	effect.
	each question and write hat makes an organism i	•	provided.
	hat human activity promertain chemicals?	otes the evolution of org	ganisms that are resistant to
13. W	hen a pesticide is spraye	d and there are still survi	ivors, what can you assume
	oout them?		
_			
14. If	an organism reproduces	quickly, its population of faster.	ean

TEACHER RESOURCE PAGE

- forest fire far away can affect the air in the city.
- 19. The forest floor may become littered with branches, leaves, and dead trees because fungi play an important role in breaking down dead organisms. Although bacteria also break down dead organisms, the lack of fungi could decrease the rate of decomposition of biotic factors in this forest ecosystem.

Active Reading

SECTION: ECOSYSTEMS: EVERYTHING IS CONNECTED

- 1. living and nonliving things
- 2. each other; abiotic factors
- 3. living and once living
- 4. nonliving
- 5. "without" or "not"
- **6.** B
- **7.** A
- **8.** A
- **9.** B
- **10.** B
- 11. A
- **12.** A
- **13.** B
- 14. A
- **15.** B
- **16.** A
- **17.** 1
- **18.** 5
- **19.** 2
- **20.** 3
- **21.** 4

SECTION: EVOLUTION

- when it contains a gene that allows it to break the chemical down into harmless substances
- **2.** the evolution of pest resistance among corn pests
- **3.** the ability of one or more organisms to tolerate a particular chemical designed to kill it
- 4. Answers may vary.
- **5.** 3
- **6.** 1
- **7.** 2
- **8.** 6
- **9.** 4

- **10.** 5
- **11.** It contains a gene that allows it to break the chemical down into harmless substances.
- **12.** the attempt to control pests and bacteria with chemicals
- **13.** They have a pesticide-resistant gene.
- 14. evolve

SECTION: THE DIVERSITY OF LIVING THINGS

- **1.** b
- **2.** a
- **3.** c
- **4.** b
- **5.** d
- **6.** a
- 7. miniature skeletons
- **8.** Like bacteria, fungi break down bodies and body parts of dead organisms and sometimes cause diseases.
- **9.** Bodies and body parts of dead organisms are broken down.
- 10. athlete's foot
- **11.** They give blue cheese its strong flavor
- **12.** Yeasts produce the gas that makes bread rise.

Map Skills

- Organism: any individual from a population. Population: human; oak tree; bluejay; toad; squirrel. Community: park.
- 2. oak tree; toad
- **3.** biotic
- **4.** Answers may vary.
- **5.** Answers may vary but students should recognize that a decrease in the human population would most likely lead to an increase in the non-human population.

Quiz

SECTION: ECOSYSTEMS: EVERYTHING IS CONNECTED

Matching	Multiple Cho	
1. b	6. d	
2. e	7. b	
3. a	8. a	
4. d	9. a	
5. c	10. d	