

Name \_\_\_\_\_

Date \_\_\_\_\_

Chapter 4  
Test

MP2

5-PS3.D, 5-LS1.C, 5-LS2.A, 5-PS3-1,  
5-LS1-1

**Fill in** the bubble next to the answer choice you think is correct for each multiple-choice question.

**1.** During photosynthesis, plants give off

- ☐ (A) carbon dioxide.
- ☐ (B) water vapor.
- ☐ (C) nitrogen.
- ☐ (D) oxygen.

**4.** The shortest food chains consist of

- ☐ (A) a consumer and a decomposer.
- ☐ (B) two producers.
- ☐ (C) two consumers.
- ☐ (D) a producer and a decomposer.

**2.** During cellular respiration, organisms give off

- ☐ (A) nitrogen.
- ☐ (B) oxygen.
- ☐ (C) carbon dioxide.
- ☐ (D) water vapor.

**5.** Which describes both a food chain and a food web?

- ☐ (A) both contain only consumers
- ☐ (B) both begin with a producer
- ☐ (C) both contain multiple ways that energy flows
- ☐ (D) both must include a carnivore

**3.** What is the source of energy for most plants?

- ☐ (A) sunlight
- ☐ (B) clouds
- ☐ (C) water
- ☐ (D) animals

**6.** The relationship between an owl and a mouse is an example of

- ☐ (A) competition.
- ☐ (B) symbiosis.
- ☐ (C) predator and prey.
- ☐ (D) producer and consumer.



**7.** Which event would cause an ecosystem to change quickly?

- (A) a climate change
- (B) an earthquake
- (C) a lake drying up
- (D) a rock becoming soil

**8.** Nonnative animal populations can grow rapidly in a new ecosystem because

- (A) predators in the ecosystem are not used to hunting them.
- (B) they have no competition for resources in the ecosystem.
- (C) nonnative species are always at the top of food chains.
- (D) they are producers.

**9.** Explain how producers, consumers, and decomposers all help an ecosystem support the populations within it.

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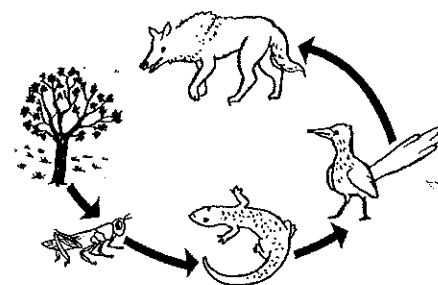
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**10.** Look carefully at the image. How is each population in the food chain affected if humans start using large amounts of pesticides in nearby areas?




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