Food Chains and Ecosystems

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Which food chain shows energy moving through four living things in the right order?
   heron → big fish → small fish → algae
   algae → big fish → small fish → heron
   small fish → algae → big fish → heron
   algae → small fish → big fish → heron

2. A farmer sprays a field and most insects die. Birds in the field eat insects. What will most likely happen to the birds?
   the number of birds will not change
   the birds will make their own food
   fewer birds can live there
   more birds will move there

3. Deer eat young trees. Wolves eat deer. Wolves return to a forest after many years. What happens to the young trees?
   nothing changes for the trees
   the young trees stop growing
   fewer young trees grow, because wolves eat trees
   more young trees grow, because there are fewer deer

4. Sea otters eat sea urchins, and sea urchins eat kelp. If the sea otters disappear, what happens to the kelp forest?
   it grows, because the urchins leave
   it stays the same, because kelp makes its own food
   it grows, because otters no longer eat kelp
   it shrinks, because more urchins eat the kelp

5. A long drought dries up a small pond until no water is left. What will most likely happen to the fish that lived in it?
   they die, because their water habitat is gone
   they grow larger, because there is less water
   they swim away to find a bigger pond
   they move to the grass and eat seeds

6. In a pond, ducks and fish both eat insects. If the ducks increase, what might happen to the fish?
   they will make their own food
   they may have fewer insects to eat
   they will have more insects to eat
   they will start eating the ducks

7. Which habitat change would help a population of bees survive?
   planting more flowers in the area
   paving a meadow into a parking lot
   cutting down the flowering trees
   spraying the field for insects

8. A hawk eats a snake that ate a mouse that ate seeds. In this food chain, which living thing is third?
   mouse seeds snake hawk

9. In grass → grasshopper → frog → hawk, if the frogs disappear, what happens to the grasshoppers at first?
   they decrease, because hawks eat them instead
   they increase, because fewer frogs eat them
   they decrease, because they have less grass
   they stay the same, because they eat grass

10. In grass → grasshopper → frog → hawk, what happens to the grass if the grasshoppers increase a lot?
   it decreases, because more of it gets eaten
   it increases, because frogs eat less
   it increases, because hawks protect it
   it stays the same, because grass makes its own food

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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