Food Chains and Ecosystems

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. In a meadow, rabbits and mice both eat grass and seeds. Hawks eat rabbits and mice. If the rabbits leave, why might the hawks still survive?
   - the hawks can start eating grass
   - the hawks can still eat mice
   - the mice will make food for hawks
   - the hawks need no food for a while

2. A wetland is drained to build houses. Which animal would most likely not survive there anymore?
   - a frog that lays eggs in water
   - an ant that lives in soil
   - a pigeon that nests on roofs
   - a squirrel that lives in trees

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

4. 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

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

6. 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 grows, because otters no longer eat kelp
   - it shrinks, because more urchins eat the kelp
   - it stays the same, because kelp makes its own food

7. 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 swim away to find a bigger pond
   they die, because their water habitat is gone
   they move to the grass and eat seeds
   they grow larger, because there is less water

8. 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 will have more insects to eat
   they will start eating the ducks
   they may have fewer insects to eat

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

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

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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   heron → big fish → small fish → algae

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4. 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

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5. Deer eat young trees. Wolves eat deer. Wolves return to a forest after many years. What happens to the young trees?

   fewer young trees grow, because wolves eat trees

   the young trees stop growing

   nothing changes for the trees

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