Year 7 Science: Populations, communities and ecosystems

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. All the pōhutukawa trees on one headland this year form a what?

2. Is the temperature of a rock pool a biotic or an abiotic factor?

3. In the bush food web, name one producer and one top predator.

4. Which way does an arrow point in a food web: from the food or from the eater?

5. Fungi on a fallen log break it down. What role do the fungi have, and why does the ecosystem need them?

Fix the mistake

6. Correct this statement: "In a food web, the arrow points from the eater to its food."

7. Correct this statement: "A population is all the animals living in an area."

8. Correct this statement: "An ecosystem is only the living things in a place."

9. Correct this statement: "Removing a predator only affects the animals it eats."

Answer key (for parents and tutors)

1. All the pōhutukawa trees on one headland this year form a what?
   A population, because it is one species in one place at one time.
2. Is the temperature of a rock pool a biotic or an abiotic factor?
   Abiotic, because temperature is not living.
3. In the bush food web, name one producer and one top predator.
   Producer: tawa or harakeke; top predator: the stoat or the ruru, since nothing in the web eats them.
4. Which way does an arrow point in a food web: from the food or from the eater?
   From the food to the eater.
5. Fungi on a fallen log break it down. What role do the fungi have, and why does the ecosystem need them?
   They are decomposers; they return nutrients from dead material to the soil so producers can use them again.
6. Correct this statement: "In a food web, the arrow points from the eater to its food."
   The arrow points from the food to the eater, showing the way energy flows.
7. Correct this statement: "A population is all the animals living in an area."
   A population is just one species; all the species together make a community.
8. Correct this statement: "An ecosystem is only the living things in a place."
   An ecosystem includes the non-living parts too, such as water, soil, light and temperature.
9. Correct this statement: "Removing a predator only affects the animals it eats."
   The change spreads through the web, reaching plants, other predators and the species that depend on them.