

What is the approximate size range for each populations? (p. 169)

Would you describe the ecosystem as stable or unstable? Cite as evidence the trends you observe in the graph.

Scenario 1 for year 11: A population of fish that are an important part of the seals' diet decreases dramatically. How will this change affect the seal and bear populations over the next 10 years if the fish population does not recover?

Scenario 2 for year 11: A disease kills half the populations of both seals and bears. If all other factors in the environment remain the same, how are the seal and bear populations likely to change over the next 10 years?

Chapter 6 Lesson 24: Ecosystems Changes and Succession

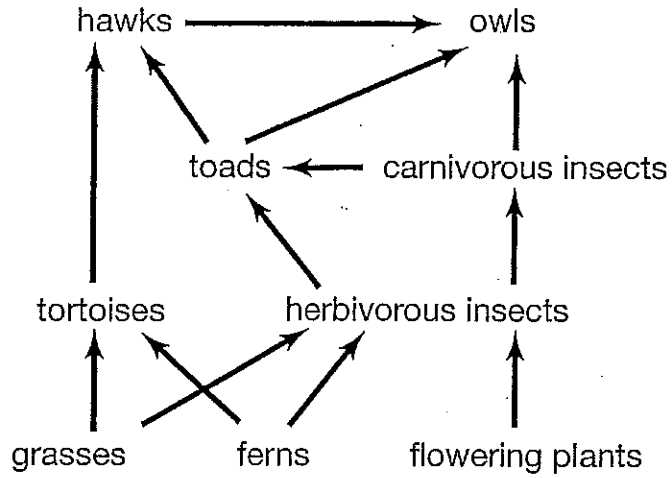
1. _____ 2. _____ 3. _____ 4. _____ (p. 174)

What role do decomposers play in primary and secondary succession?

Please complete and submit your work to your biology teacher the first day of school.

This will count for a major grade and will aid in your preparation for the Biology Keystone Exam, which is a graduation requirement.

Small Island Food Web



13. Biologists use their observations on a small island to construct the food web shown. Their calculations indicate that the producer level has about 150,000 kilojoules of energy available.

Part A: How much energy is available to the primary consumers in this food web? Explain your calculation.

Go to the next page to finish question 13.

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13. *Continued.* Please refer to the previous page for task explanation.

Part B: Explain what feeding behaviors shown make a food web a better choice for displaying this information than an energy pyramid.

Part C: Explain why all organisms in the diagram are directly or indirectly dependent on the sun for energy.
