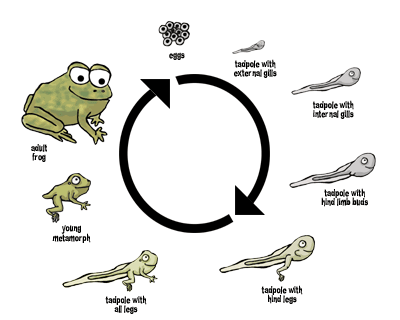
Section 1.1

Sustaining Ecosystems Essential Vocabulary Terms:

1. Define or be able to define the following terms. Begin by finding the page or pages that use these words in Chapter 1, then write a short one line explanation for each.

1. Abiotic
2. Albedo
3. Autotroph
4. Biodiversity
5. Biomass
6. Biotic
7. Carnivore
8. Community
9. Consumer
10. Decomposer
11. Detritus
12. Ecology
13. Ecosystem
14. Endangered
15. Extinct
16. Extirpated
17. Food chain
18. Food web
19. Habitat
20. Herbivore
21. Heterotroph
22. Niche
23. Omnivore
24. Pest
25. Photosynthesis
26. Population
27. Primary consumer
28. Producer
29. Secondary consumer
30. Thermodynamics; 1st and 2nd Law
31. Threatened
32. Trophic level
33. Vulnerable
34. Section 1.1

Silence of the frogs

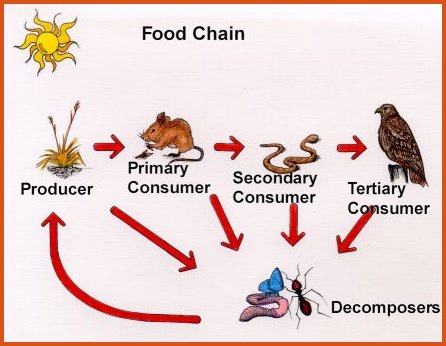


Amphibians are indicators of the health of an ecosystem. The health of their population can be linked to the health of the environment.

Amphibians have been around for more than 400 million years. They survived and adapted catastrophes, ice ages and period of global warming and can be found in many places on earth.

Scientists are concerned about the health of amphibian populations.

Frogs and Amphibians are direct parts of two distinct food chains:



1. Mature frogs are:
   1. Secondary consumers (carnivores) that eat insects. Without health populations of frogs, insect populations raise. Increased frequencies of disease occur. Malaria in third world countries like Bangladesh and Mali. <http://maps.google.ca/maps?hl=en&tab=wl> West Nile virus in North America
   2. Food for higher level, Tertiary Consumers (carnivores and omnivores) of the food chain. Birds of prey eagles, owls, herons.
2. Tadpoles are:
   1. Primary consumers (herbivores) which eat large amounts of producers and detritus (Living and dead algae and waste from plants and animals). This is critical in the recycling of ecosystems and help release nutrients back into the environment.

Why are frogs and amphibians disappearing?

1. Loss of habitat
2. Air and water Quality
3. Ultraviolet Radiation
4. Climate change

Read - *Warning from the Golden Toad*. Tim Flannery. We are the Weather Makers. Harper Trophy Canada. Toronto, Ontario. 2007. Pp. 103-110.

Section Questions:

1. Why are frogs and amphibians associated with environmental health?
2. Create a method for evaluating the population of an amphibian in a certain area. What would you do?
3. Read and be able to answer all the Understanding Concepts 1-7 on page 13. Choose two and answer completely.