Trophic levels

Remember to **practice** using these terms.

10% law Heterotroph

Autotroph Inorganic

Biological magnification Keystone species

Carnivore Organic

Consumer Parasite

Decomposer Predator

Food chain Prey

Food web Producer

Herbivore Scavenger

Questions

- 1. Diagram the carbon cycle. Where to plants, animals, and bacteria fit in the cycle?
- 2. Diagram the oxygen cycle. Where to plants, animals, and bacteria fit in the cycle?
- 3. Suppose that a fox feeds only on rabbits, squirrels, mice, and seed-eating birds, all of which feed on plant material. How many square meters of plant material are then required to support the fox if the net primary productivity of the plant material is 8000 Kcal/m²/year? Assume that the fox's daily caloric requirement is 800 Kcal, and that only 10% of the energy at one trophic level can be passed on to the next. If the fox were to feed only on insect-eating birds, how many square meters of plant material would be required?

