

## Biology 11: Ecology

Using **Nelson** Ch. 16, 17, and 20 or **Miller and Levine** Ch. 6 and 47, answer the following questions:

1. What is succession?
  - a) What is primary succession?
  - b) What is secondary succession?
2. Explain the difference between a pioneer community and a climax community.
3. Define and describe a pyramid of energy.
4. What is a trophic level?
5. Is energy transfer 100% between trophic levels?
6. Explain the difference between a food chain and a food web.
7. Define and describe the role of photosynthesis.
  - a) What type of organism uses it?
  - b) In what organelle does photosynthesis occur?
  - c) What is chlorophyll?
  - d) What is the equation for photosynthesis?
8. Define and describe the role of cellular respiration.
  - a) What type of organism uses it?
  - b) In what organelle does cellular respiration occur?
  - c) What is the equation for cellular respiration?
9. What is ATP?