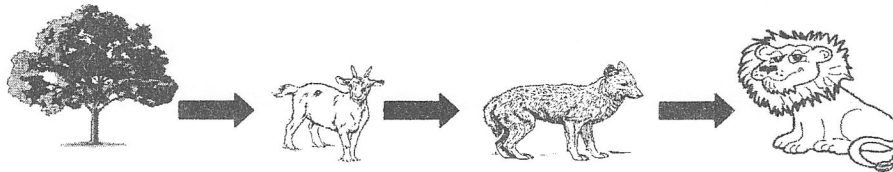


## Unit 2 Exam Review: Ecology

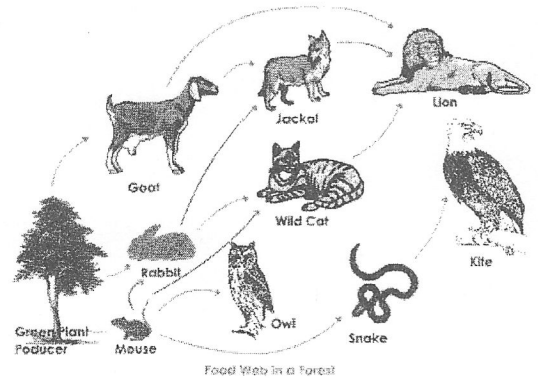
This review is a guide to help you prepare for your exam. You should also review all notes, assignments and any other work completed in this unit. Simply memorizing the answers to the questions on this review will NOT guarantee success on this exam. You must thoroughly understand and be able to APPLY the information covered in this unit. ALL information covered in the unit is fair game for the exam, even if it was not specifically mentioned on this review.

***The exam will be 30 multiple choice questions using a scantron answer sheet.***

1. *Define* and be able to *explain* how the following terms/concepts relate to the unit:
  - Ecology
  - Commensalism
  - Abiotic factors
  - Ecological succession
  - Mutualism
  - Parasitism & Predation
2. Write the levels of organization on Earth from simplest to most complex.
3. What is the original source of all energy in most ecosystems?
4. Describe the role of decomposers.
5. Only 10 percent of the energy stored in an organism can be passed on to the next trophic level. What happens to the remaining 90% of the energy?
6. How many trophic levels are present in the food chain below? \_\_\_\_\_
  - Label each of the levels of the food chain below as a producer or type of consumer



7. Answer the following questions based on the food web on the right.
  - a. Write one food chain from the food web on the right
  - b. Which population would be affected if the goat was continuously being decreased?



- 8.
- 9.
- 10.
11. Be able to identify the three types of ecological pyramids (energy, biomass and numbers)
12. What does a controlled experiment allow a scientist to do?
13. What is the purpose of a control group in an experiment?