**Unit 1 EOC Review – Ecology** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What factors determine the population size & growth rate?

2. Identify biotic & abiotic factors that limit the size of a population & determine if they are density-dependent or density-independent.

3. What factors determine the carrying capacity of a population?

4. What are some consequences of loss of biodiversity due to human activity and natural disasters?

5. What can happen when non-native species are introduced to an environment?

6. Which trophic level makes up the base of the food chain? What types of organisms fall into this group?

7. Which organisms in the food chain do not make their own food?

8. Which organisms recycle nutrients from the top of the food chain back to the bottom?

9. What happens to the amount of energy available from one trophic level to the next? Why does this happen?

10. Where are most organisms found in aquatic ecosystems? Why are they found there?

11. What are the stages of primary succession? How would the ecosystem change at each stage?

12. What are the costs & benefits of using the following resources?

 a) water

 b) energy (various sources)

 c) fossil fuels

 d) wildlife

 e) forests

**Unit 1 EOC Review – Ecology** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What factors determine the population size & growth rate?

2. Identify biotic & abiotic factors that limit the size of a population & determine if they are density-dependent or density-independent.

3. What factors determine the carrying capacity of a population?

4. What are some consequences of loss of biodiversity due to human activity and natural disasters?

5. What can happen when non-native species are introduced to an environment?

6. Which trophic level makes up the base of the food chain? What types of organisms fall into this group?

7. Which organisms in the food chain do not make their own food?

8. Which organisms recycle nutrients from the top of the food chain back to the bottom?

9. What happens to the amount of energy available from one trophic level to the next? Why does this happen?

10. Where are most organisms found in aquatic ecosystems? Why are they found there?

11. What are the stages of primary succession? How would the ecosystem change at each stage?

12. What are the costs & benefits of using the following resources?

 a) water

 b) energy (various sources)

 c) fossil fuels

 d) wildlife

 e) forests