Ecology Test Concepts Review

1. Biogeochemical cycles (water, carbon, nitrogen): how humans impact each, how they are interrelated
2. Population dynamics: biotic and abiotic limiting factors that determine “k”; what is k; density dependent v density independent
3. Food web and food chain energy transfer; effect of increasing or decreasing populations
4. Energy pyramid: 10% law and sunlight
5. Ocean levels: chemistry (nutrients, pH), geography, light, depth, salinity affect energy available
6. Ecological changes: succession, seasonal variations, climate changes
7. Renewable v nonrenewable resources
8. Loss of biodiversity causes: catastrophic events, climate changes, human activity, invasive species
9. Levels of organization, niche v habitat
10. Student designing of labs: ex: create a mini lab to test \_\_\_\_\_
11. Dust Bowl: limiting factors, human policy, etc