EXPECTATIONS
ENVIRONMENTAL SCIENCE QUIZ
"Energy in Ecosystems"

STATE the average trophic efficiency in food chains
STATE which form of energy is the lowest quality
DEFINE joules
DEFINE cogeneration
DEFINE biological productivity
DEFINE chemosynthesis
LIST the two most important decomposers (by large group or kingdom)
OUTLINE how you measure biological productivity
OUTLINE the first law of thermodynamics
OUTLINE the second law of thermodynamics
ANALYZE an illustration of an object moving over time compare its relative kinetic and potential energies at different positions
ANALYZE a graph
DEDUCE a relationship between two variables from a graph
DESCRIBE the relationship between biomass and species/habitat diversity
COMPARE omnivores, detrivores, herbivores and carnivores
COMPARE kinetic and potential energy
COMPARE the first law of thermodynamics and the second law of thermodynamics
COMPARE food webs in the tropics with food webs of the arctic
COMPARE positive and negative correlations
EXPLAIN why food webs might vary in length and/or complexity
DETERMINE an organisms trophic level when given the communities feeding relationships
CALCULATE available energy in trophic levels when given the energy level of another trophic level