DEFINE homeotic genes, segmentation genes, egg polarity genes
DEFINE pheromone
DEFINE biomagnification
STATE the temperature at which water is the most dense
IDENTIFY an example of the competitive exclusion principle
IDENTIFY different mechanisms of thermoregulation in terrestrial mammals
IDENTIFY digestive processes that benefit from increased surface area
LIST functions of the mammalian kidney
LIST the steps of the inflammatory response
LIST the steps in the activation of cytotoxic T cells
LIST detrimental effects of deforestation and industrialized agriculture
OUTLINE endotherms and ectotherms
OUTLINE natural life histories
OUTLINE gross and net primary production
OUTLINE the characteristics of molecules that easily pass through plasma membranes
OUTLINE the competitive exclusion principle
OUTLINE global and geographical patterns for species richness
OUTLINE the direction of blood flow in arteries and veins
OUTLINE eutrophication
OUTLINE cellular differentiation and its role in development
DESCRIBE Jenner's discovery and production of the small pox vaccine
DESCRIBE the vaporization of water
DESCRIBE the roles of disturbances in an ecological community
COMPARE gross and net primary production
COMPARE the different types of symbioses found in a ecological community
COMPARE keystone and dominant species
COMPARE trade-offs between gastrovascular cavities and complete digestive cavities
SUGGEST how nature might select for different life histories
DISCUSS behaviors that are learned and those that are genetically based
DISCUSS how nature could select for certain behaviors like it does for physical traits
EXPLAIN why the pyramids of biomass, numbers and energy have broad bases
EXPLAIN density dependent inhibition
EXPLAIN water's high specific heat
EXPLAIN the clonal selection theory
EXPLAIN how cows can live off grass alone
EXPLAIN how the counter current mechanism of blood flow can regulate body temp.
DEDUCE the biomass of a certain trophic level when given the biomass of another trophic level
DEDUCE the relative extinction rate of an island compared to others based on its size and distance from the mainland
DEDUCE the relationships between predators & prey using the logistic growth equation
PREDICT the effect on lowering ecosystem diversity on biodiversity
EVALUATE statements about global warming as facts or assumptions
DETERMINE the type of symbiotic relationship described in a written passage
DETERMINE the dominant and keystone species from a written passage
ANALYZE the logistic growth equation to DEDUCE relationships among the different

variables in the equation
ANALYZE a molecular model of a solute particle to DEDUCE its charge
ANALYZE a graph of antigen exposure to DEDUCE antibody production