Review - Unit #2

cel1 tissue organ organ system

- nervous

- integumentary

- respiratory

- digestive

- excretory

- skeletal

- muscular

- circulatory

- endocrine

- reproductive

- lymphatic/immune

ecology ecologist

organism species

population

community ecosystem

biome

biosphere

biotic factor

abiotic factor

habitat

niche

sunlight

photosynthesis

reactant

product

chemosynthesis

autotroph

heterotroph

- herbivore

- carnivore

- omnivore

- detrivore

- decomposer

- scavenger

energy food chain food web trophic level owl pellet ecological pyramids

- energy pyramid

- biomass pyramid

- biomass

- pyramid of numbers species interactions

- direct/indirect

- predation

- predator

- prey

- competition

- parasitism

- parasite

- host

- mutualism

- commensalism adaptation

symbiosis

co-evolution

nutrient mineral nutrient non-mineral nutrient macronutrient

- primary

- secondary micronutrient

water/hydrologic cycle

- surface runoff

- precipitation

- condensation

- percolation/infiltration

- capillarity

- evaporation

- transpiration

- ground water carbon cycle

- carbon dioxide

- oxygen

- respiration

- photosynthesis

- combustion

phosphorus cycle

- inorganic compounds

- phosphates

- plants

- animals

- decaying/fecal matter nitrogen cycle

- atmospheric nitrogen

- nitrates

- nitrites

- ammonia

- plant protein

- animal protein

- lightning

- bacterial action

- nitrogen fixation

- absorption by plants

- eaten by animals

- decay of dead material

- break down of feces and urine

environmental problems disrupting natural cycles

- radioactive contamination

- pollution of oceans

- depletion of fish stocks

- use of fossil fuels

- draining of underground aquifers

- clearing of forests

- use of fertilizers and pesticides species at risk

- extinct

- extirpated

- endangered

- threatened

- special concern

- data deficient

- not at risk

1. Be able to define each term on the previous page.

- 2. What are the levels of organization in a multicellular organism?
- 3. State the functions of the eleven organ systems in a human.

4. What are the levels of organization studied by ecologists?

- 5. Be prepared to provide information regarding the biome covered by your travel brochure.
- 6. Be able to provide two biotic factors and two abiotic factors.
- 7. Choose an organism and describe its niche in its ecosystem.
- 8. What is the main energy source for life on Earth?
- 9. How does energy move through an ecosystem?
- 10. Write a balanced chemical equation for photosynthesis.
- 11. Draw a concept map for the types of organisms discussed in class.
- 12. Study the food chain below. Identify the trophic level occupied by each organism.

marsh grass -> grasshopper -> mouse -> hawk

- 13. Review the background material on owl pellets provided with the owl dissection handouts.
- 14. a) Name three types of ecological pyramids.

b) What types of pyramids can be inverted?

- 15. Name five types of species interactions. Be able to give an example of each and/or identify the type existing between two organisms given background info.
- 16. a) Be able to draw a concept map for the types of nutrients discussed in class.

b) How do nutrients move through an ecosystem?

- c) Be able to label a diagram of the water (hydrologic) cycle.
- d) Be able to state the processes involved in the carbon cycle.

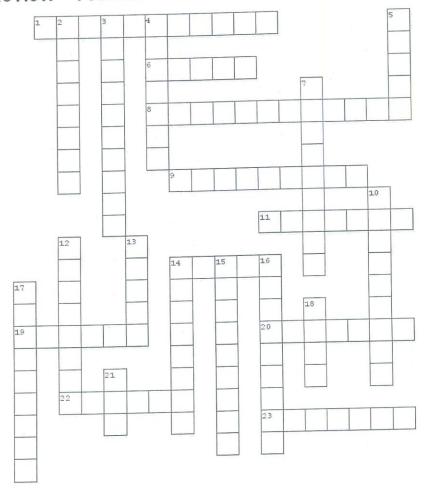
e) Be able to draw a concept map for the nitrogen cycle.

- 17. List seven environmental problems, caused by humans, which disrupt natural cycles.
- 18. There are 7 levels of risk for species. What are they?

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Review - Test #2



Across

- each organism can be harmed by this type of species interaction
- 6 a group of different types of tissues that work together to perform a single function
- 3 animals, fungi and bacteria
- 9 involves a series of steps in which organisms transfer energy by eating and being eaten
- 11 a type of factor in an ecosystem (ie/ temperature)
- 14 unique role of a species within an ecosystem
- 19 muscle, epithelial, nerve and connective are examples
- 20 group of organisms so similar to one another that they can breed and produce fertile offspring
- 22 number of organ systems in the human body
- 23 the scientific study of interactions among organisms and between organisms and their environment (surroundings)

Down

- 2 a single living thing
- 3 group of individuals that belong to the same species and live in the same area
- 4 _____ or feeding level
- 5 energy _____ through an ecosystem
- 7 the interaction between a coyoter and deer is an example of this type of species interaction
- 10 extends from about 8 km above Earth's surface to as far as 11 km below the surface of the ocean
- 12 tick,flea or tapeworm
- 13 nutrients _____ through an ecosystem
- 14 an essential element
- 15 a collection of different populations that live together in a defined area
- 16 a collection of all the organisms that live in a particular place together with their nonliving, or physical environment
- 17 relationship in which both organisms benefit
- 18 basic unit of all forms of living things
- 21 percentage of energy that moves from one trophic level to the next