

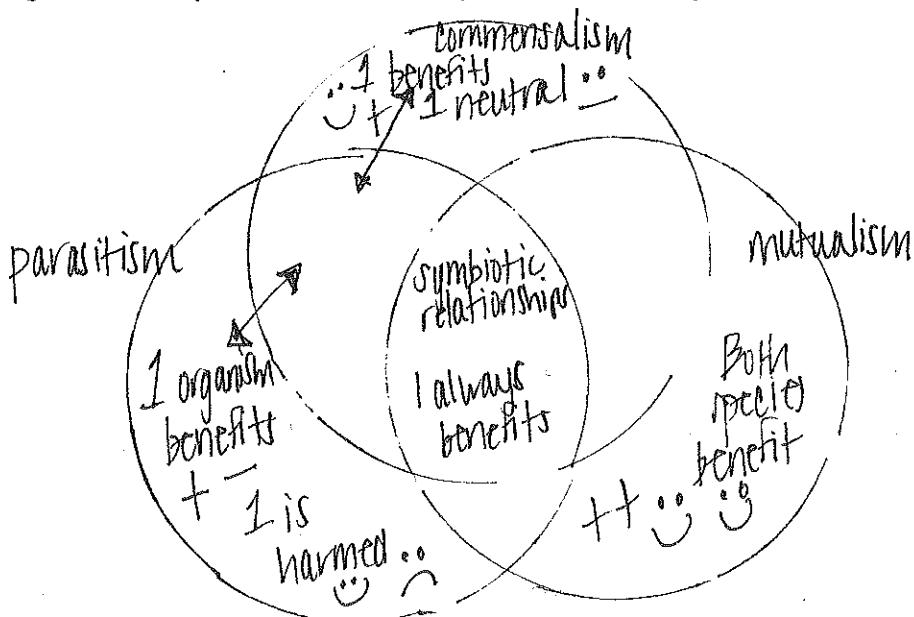
Name Kyle Date _____ Period _____

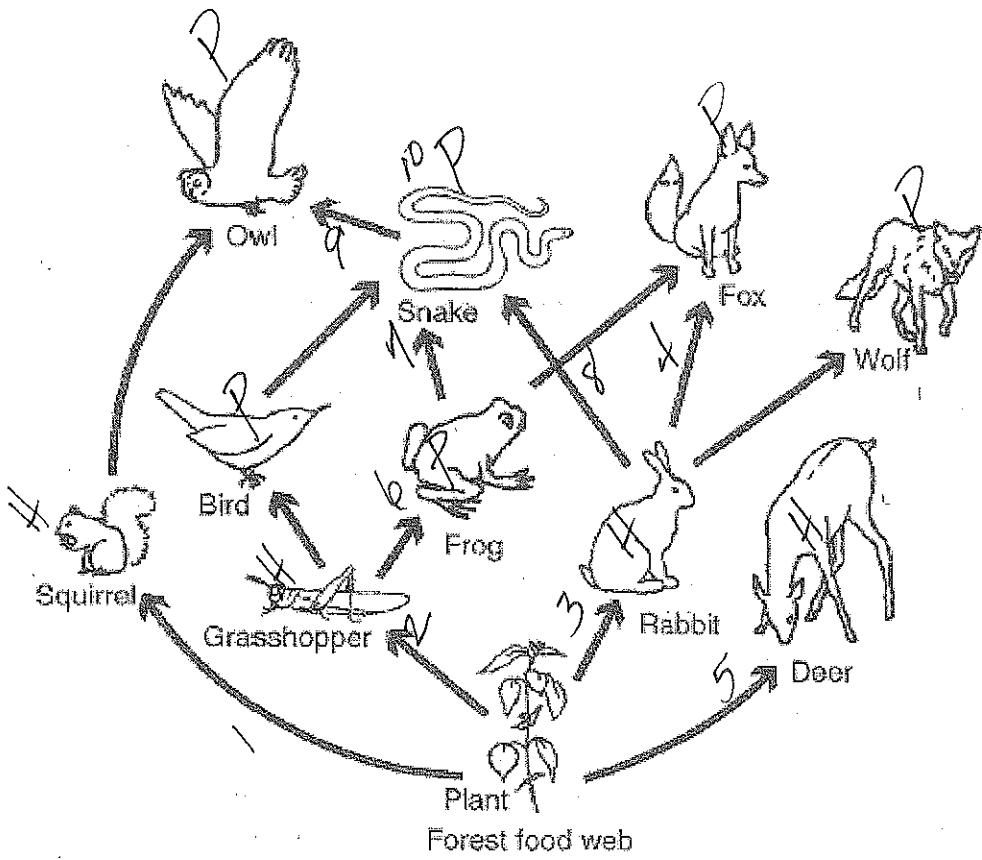
Study Guide – Organisms and the Environment

Vocabulary – Define and give an example of each.

1. Deforestation - the removal of vegetation (trees, plants) leading to increased levels of CO_2
2. Extinct - a species completely died out
3. Endangered - a species in danger of becoming extinct
4. Symbiosis - a relationship between 2 or more organisms in which at least 1 benefits
5. Producer - an organism that makes its own food
6. Abiotic - non-living factors of an ecosystem i.e. soil, sunlight, H_2O , air, rocks
7. Biotic - living factors of an ecosystem i.e. plants, animals, fungus, bacteria
8. Consumer - organism that does not make its own food
9. Food web - shows the interaction (feeding connections) between organisms in an environment i.e. energy flow
10. Scavenger - consume dead animal & plant material
11. Decomposer - feeds off of dead organisms & breaks them down (follows process after scavenger)
12. Food chain - a food chain depicts a sequence of organisms in an ecosystem of the direction of energy flow
13. Parasite - an organism that lives on or in another organism of another species, known as the host, from the body of which it obtains nutrition
14. Host - an organism that harbors a parasite
15. Acid rain - rain that is acidic caused by emissions (pollution) reacting with H_2O
16. Omnivore - eats both plants & animals
17. Adaptation - a trait that promotes survival & reproduction
18. Predator - an organism that hunts & kills prey
19. Prey - the organism that is attacked in a predator/prey relationship
20. Ecosystem - a community of living organisms & nonliving factors interacting

Draw a Venn Diagram to compare commensalism, mutualism, and parasitism.





Using the food web above, answer the following questions:

What will happen to the snake, if the rabbit becomes extinct? It will have to eat birds or frogs only.

What will happen if the producer is destroyed by a disease? the remaining consumers will have to relocate or die

How many individual food chains are present in this food web? more than 10

Show the energy pathway between the deer and the wolf. there is not an energy pathway between

What is the sun's role in this diagram? source of energy (original)

Place an "H" on the organisms that are herbivores. Place a "P" on the organisms that are predators.

Infer what abiotic factors would be necessary for the sustainability of this food web.

soil, air, sunlight, water, rock

Compare and contrast the adaptations that have allowed the polar bear and the black bear to survive in their respective environments.

polar bear

- long claws
- thickest fur
- light fur
- strong jaws
- ability to hibernate

black bear

- long claws
- dark fur
- strong jaws
- ability to hibernate
- thick fur