Learning Target: I can describe the role competition, predation, herbivory, keystone species, and symbiotic relationships play in shaping communities and nature.

Niches & Community Interactions Activity

Part 1: Put the terms below with their correct definition.

Tolerance	**Habitat**	**Niche**	**Competition**
Competitive exclusion principle	**Herbivory**	**Predation**	**Keystone species**
Bottom-up trophic cascade	**Mutualism**	**Commensalism**	**Parasitism**

1. When two species contend with each other for the same resource. _____

2. A reasonable amount of conditions under which a species can grow and reproduce. _____

3. A symbiotic relationship where one species benefits and the other is neither helped nor harmed. _____

4. When one organism captures and eats another organism. _____

5. Organisms that help bring order and balance to communities and ecosystems. _____

6. A symbiotic relationship where both species benefit from the relationship. _____

7. No two species can occupy exactly the same niche or job in exactly the same habitat at the same time. _____

8. Where an organism lives. _____

9. Interaction where organisms feed on producers such as plants and trees. _____

10. A symbiotic relationship where one organism lives off of another organism, harming it and possibly causing death. _____

11. All of the physical and biological conditions in which a species lives and the way the species gets what it needs to survive and reproduce. _____

12. When the producer population in a community has been drastically reduced, causing organisms that depend on them to survive die off causing a bottom-up domino effect. _____

Part 2: Use the terms to identify the type of symbiotic relationship. (Commensalism, Mutualism, Parasitism)

13. A mosquito feeding off of the blood of another organism. _____

14. Tree frogs use plants as protection. _____

15. Golden jackals, trail behind a tiger to feed on the left overs of its kill. _____

16. Bacteria in humans stomach feed off of digested food and provide humans with vitamin K, which is required for the formation of blood clotting factors. _____

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17. Sea anemone give clownfish a safe place to live and eat prey, and in return clownfish provide food to the anemone, help rid it of harmful parasites, and chase away fish like butterfly fish that feed on anemones. _____

Part 3: Use the terms to identify the following scenarios. (Tolerance, Niche, Competition, Predation, Herbivory, Keystone species, Bottom-up trophic cascade)

Cheetah & Gazelle

_____

pH and temperature in fish tank

_____

Sea otter keep sea urchin population in check

_____

Birds mate to pass on their genes

_____

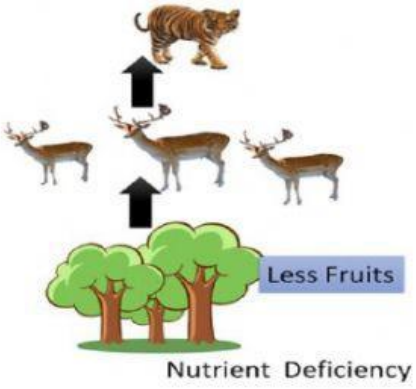
Lions vs. Hyenas

_____

Deer eating grass

_____

Lack of producers in ecosystem



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